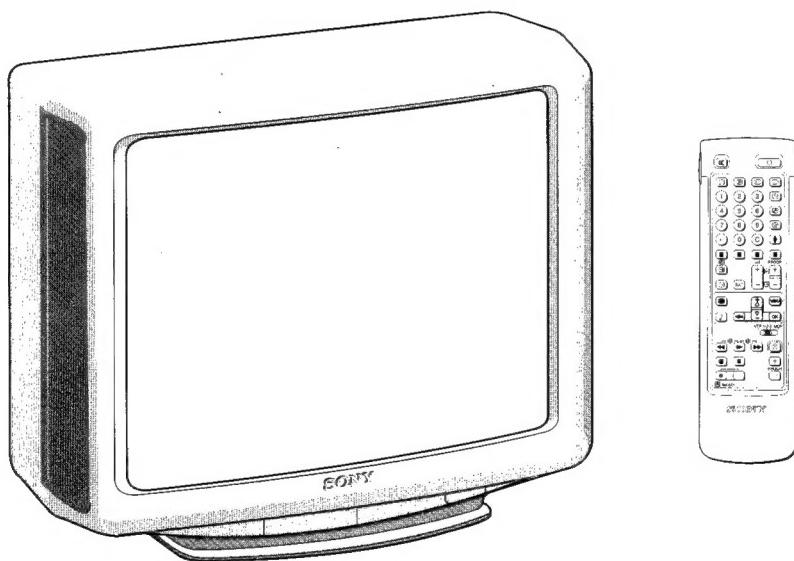


SERVICE MANUAL

AE-3 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-S2951A	RM-831	Italian	SCC-J26C-A	KV-S2951K	RM-831	OIRT	SCC-J29C-A
KV-S2953B	RM-831	French	SCC-J27C-A	KV-S2952U	RM-831	UK	SCC-J24C-A
KV-S2951D	RM-831	AEP	SCC-J23C-A				
KV-S2953E	RM-831	Spanish	SCC-J28C-A				



TRINITRON® COLOR TV
SONY®

ITEM	MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
French	L, B/G/H, I	L VHF: F2-F10 UHF: F21-F69 Cable TV: B-Q B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 I B21-69	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: B-Q UHF: S21-S41	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
Spanish	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 SECAM D/K VHF: R01-R12 UHF: R21-R60	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: B-Q UHF: S21-S41	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	
UK	I	UHF: 21-69	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)	

MODEL	Italian	French	AEP	Spanish	OIRT	UK
Power Consumption	138W	156Wh	154W	156Wh	154W	212W

SPECIFICATIONS

Picture Tube Super Trinitron Wide
 Approx. 72 cm (29 inches)
 (Approx. 68 cm picture measured diagonally)
 110° -deflection

→ Audio outputs - phono jacks
 → Audio outputs (variable) - phono jacks
 External speaker terminals : 2-pin DIN (5)

Rear/Front Terminals

[REAR]

- 21-pin Euro connector (CENELEC standard)
 - Input for audio and video signals
 - Input for RGB
 - Outputs of TV video and audio signals
- 21-pin Euro connector
 - Input for audio and video signals
 - Input for S video
 - Outputs of TV video and audio signals (selectable)
- 21-pin Euro connector
 - Input for audio and video signals
 - Input for S video
 - Outputs of TV video and audio signals (monitor out)
- 2 , 4 S video inputs - 4 pin DIN
- Audio inputs (L, R) - phono jacks
- S video output - 4 pin DIN

[FRONT]

- 3 Video input - phono jack
- 3 Audio inputs - phono jacks
- 3 S video input - 4-pin DIN
- Headphone jack : stereo minijack
- Sound output 2x30W (music power)
 1x30W Centre
 2x15W Surround
- Dimensions Approx. 702x558x540 mm
- Weight Approx. 53 kg
- Supplied accessories Remote Commander RM-831 (1)
 Scroll Commander RM-60 (1)
 Batteries R6 (2)
 Surround speaker (2)
 Surround Loudspeaker (1)

Other features

TOP-text (KV-S2951D)
 FASTEXT, NICAM (KV-S2953B/S2953E/S2952U)
 DNR (Digital Noise Reduction)
 Scroll Commander
 Dolby Digital Surround System
 100Hz Digital Plus
 Graphic Equalizer
 PIP (picture in picture)
 Multi-PIP

[RM-831]

Remote control system
 Power requirements
 Dimensions
 Weight

infrared control
 1.5V dc
 1 battery IEC designation
 R6 (size AA)
 Approx. 65x225x21 mm (w/h/d)
 Approx. 157g (Not including battery)

Design and specifications are subject to change without notice.

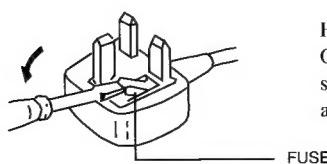
Model name Item	KV-S2951A	KV-S2953B	KV-S2951D	KV-S2953E	KV-S2951K	KV-S2952U
Pal Comb	ON	ON	ON	ON	ON	ON
PIP	ON	ON	ON	ON	ON	ON
RGB Priority	ON	ON	OFF	OFF	OFF	OFF
60 Programs	OFF	OFF	OFF	OFF	OFF	OFF
PAL PLUS	ON	ON	ON	ON	ON	ON
DOLBY	ON	ON	ON	ON	ON	ON
DSP	OFF	OFF	OFF	OFF	OFF	OFF
EQUALIZER	ON	ON	ON	ON	ON	ON
SUB TUNER	OFF	OFF	OFF	OFF	OFF	OFF
PAP	OFF	OFF	OFF	OFF	OFF	OFF
MLT.PIP	ON	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front 3	ON	ON	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON	ON	ON
DYN. CONV.	OFF	OFF	OFF	OFF	OFF	OFF
PIC. ROT.	ON	ON	ON	ON	ON	ON
Language Preset	Italian	French	German	Spanish	OIRT	English

WARNING (KV-S2952U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the  mark.

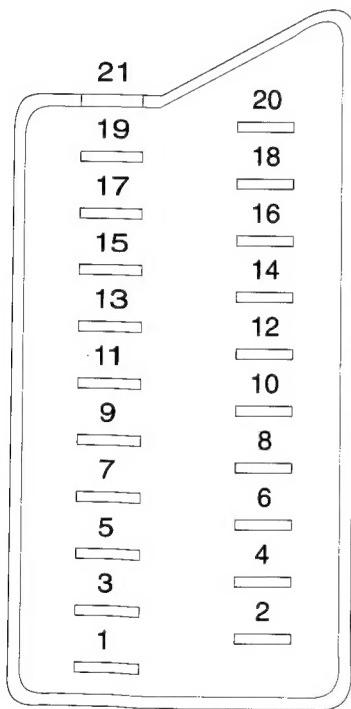
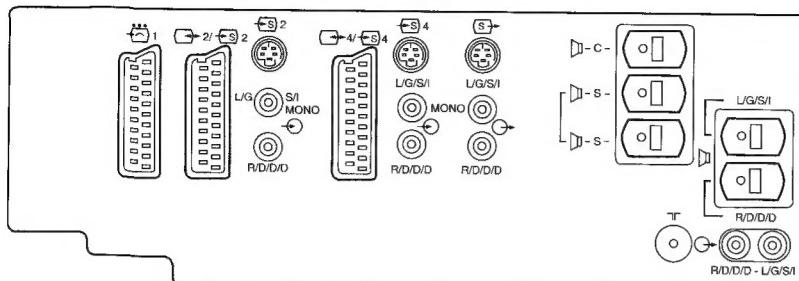
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.

When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
 Open the fuse compartment with the screwdriver blade
 and replace the fuse.

21 pin connector (Pin 1, Pin 2, Pin 4, Pin 4)



Pin No		Signal	Signal level
1	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	○	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	○	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	○	Ground (audio)	
5	○	Ground (blue)	
6	○	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*
7	○	Blue input	0.7V±3dB, 75ohms, positive
8	○	Function select (AV control)	High state (9.5—12V);Part mode Low state (0—2V);TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	○	Ground (green)	
10	○	Open	
11	○	Green	Green signal:0.7V±3dB, 75ohms, positive
12	○	Open	
13	○	Ground(red)	
14	●	Ground (blanking)	
15	○	Red input	0.7V±3dB, 75ohms, positive
	—	(S signal) chroma input	0.3V±3dB, 75ohms, positive
16	○	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	○	Ground (video output)	
18	○	Ground (video input)	
19	○	Video output	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
20	○	Video input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
	—	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
21	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.

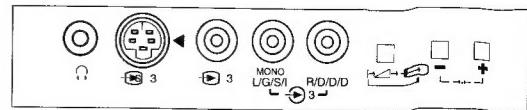


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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE. LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDICÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

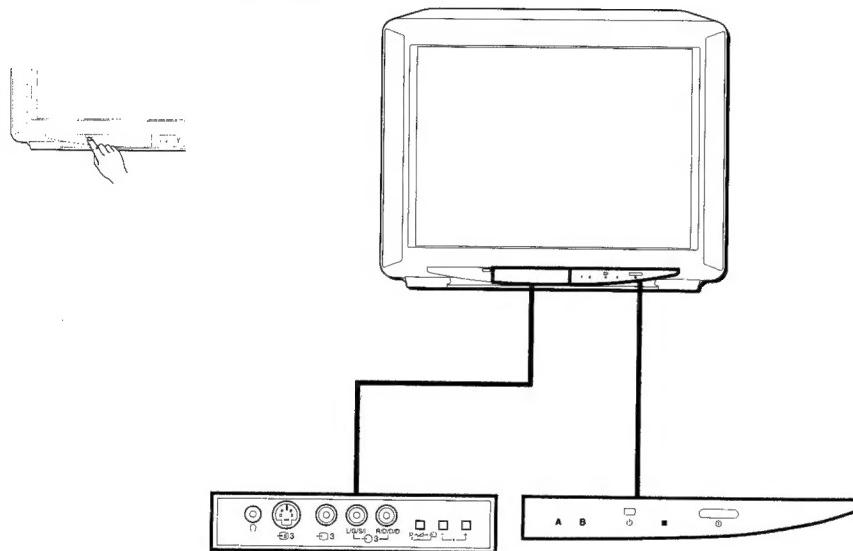
Overview

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

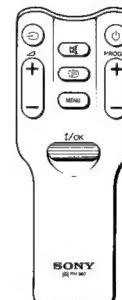
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front

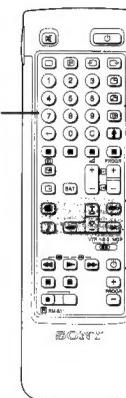
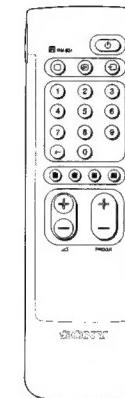


Symbol	Name	Refer to page
①	Main power switch	38, 45
②	Standby indicator	45
A-B	Stereo A/B mode indicators	47
③	Headphones jack	55
④ 3, ⑤ 3, ⑥ 3	Input jacks (S video/video/audio)	55
⑦ ↗ ↘ ↙ ↖	Function selector (Programme/volume/input)	45
⑧ +/ -	Adjustment buttons for function selector	45

Scroll Commander RM-860



Remote Commander RM-831



TV/Teletext operation

PIP operation

Menu operation

Video operation

Note
The SAT button does not operate with this TV.

TV/Teletext operation

Symbol	Name	Refer to Page
⑨	Muting on/off button	46
⑩	Standby button	45
⑪	TV power on/TV mode selector button	45
⑫	Teletext button	46
⑬	Input mode selector	46
⑭	Output mode selector	56
⑮, ⑯, ⑰, ⑱, ⑲, ⑳, ⑳, ⑳, ⑳	Number buttons	45
⑳--	Double-digit entering button	45
C	Direct channel entering button	44
⑳ +/-	Volume control button	45
PROGR +/-	Programme selectors	45
⑳⑳	Teletext page access buttons	52
⑳	Picture adjustment button	47
⑳	Sound adjustment button	47
⑳	On-screen display button	46
⑳	Teletext hold button	52
⑳	Time display button	46
⑳⑳⑳⑳	Fastext buttons	52

PIP (Picture-in-picture) operation

Symbol	Name	Refer to Page
⑳	PIP on / off button	50
↑	PIP source selector	50
⑳	Swap button	50
⑳	PIP position changing button	50

Menu operation

Symbol	Name	Refer to Page
MENU	Menu on / off button	38
△+▽-	Select buttons	38
OK	OK (confirming) button	38
←	Back button	38
↓/OK	Scroll Commander: Roller to select/ confirm menu functions	38

Video operation

Symbol	Name	Refer to Page
VTR1/2/3	Video equipment selector	57
MDP		
◀▶◀▶	Video equipment operation buttons	57
■ II ● ○		
PROGR +/-		

Getting Started

Step 1 – Connection

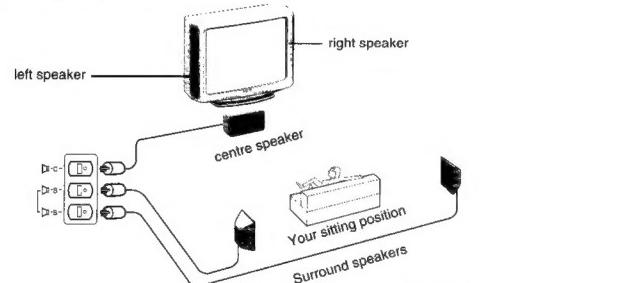
1 Connect the speakers

Notes:

- Connect the speakers using the leads provided making sure to observe the following polarity: The striped lead is (+) and should be connected to the red terminal on the speaker.
- The black lead is (-) and should be connected to the black terminal on the speaker.

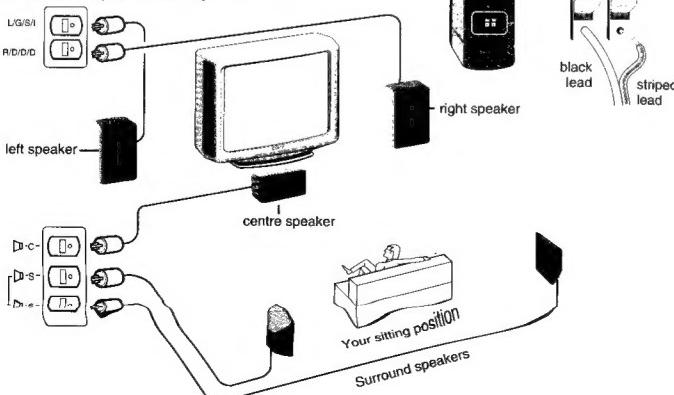
Dolby (*) Pro Logic Surround requires normally 5 speakers, whose functions are as follows:
Centre speaker: to anchor the stable sound image, like dialogue, to the TV screen.
Left and Right front speakers: for the normal two-channel stereo broadcasts.
Surround speakers: for the special effects created by the surround channel.
To obtain the full benefit of your Dolby Pro Logic Surround TV, the speakers should be positioned as shown below:
Before switching on: connect the speakers to the TV set.

a. Connect the speakers provided only:

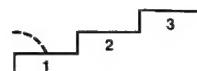


Note:
If you prefer to use your own speakers, make sure they are at least 8 Ω impedance and are magnetically shielded otherwise picture distortion may occur.

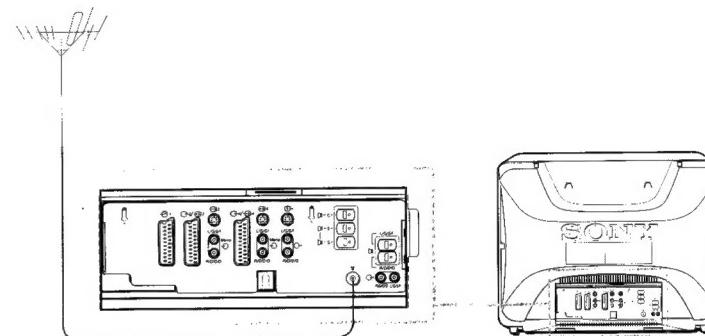
b. Connect your own speakers:



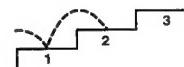
(*) Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol DD and »PRO LOGIC« are trademarks of Dolby Laboratories Licensing Corporation.



2 Connect the aerial

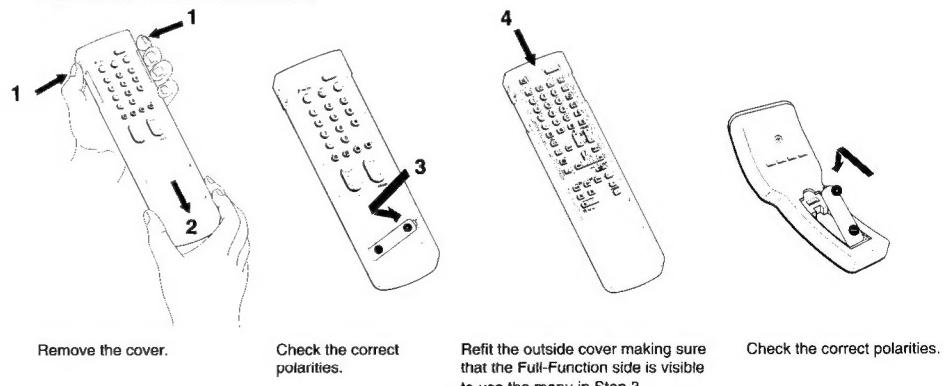


Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the TF socket at the rear of the TV. Make sure to use an aerial cable corresponding to the relevant regulations.



Step 2 – Preparation

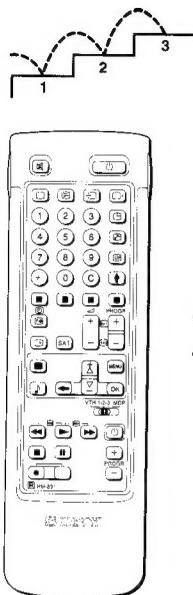
Insert the batteries into the Remote Commanders



Check the correct polarities.

Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 3.

Step 3 Tuning in to TV Stations



Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method.

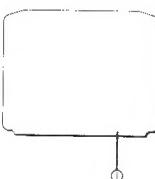
The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

Easy Menu operation using the Scroll Commander

In addition to our double-sided Remote Commander, your TV set is supplied with an extra Remote Commander. The «Scroll Commander» works with a roller for convenient, fast-access operation of the menu functions. Move the roller upwards to move the cursor upwards, move the roller downwards to move the cursor downwards, press the roller to confirm a selection. The other buttons on this commander have the same functions as the respective buttons on the double-sided Remote Commander.



To go back to main menu:
Keep pressing \leftarrow .

To go back to the normal TV picture:
Press MENU. Normal TV picture will be restored after one minute if menu functions are not selected.

Note on the Demo function:
If you choose Demo in the Installation menu, you can see a demonstration of the main functions.
Press MENU to stop the function.

1 Choose a language

- Depress \odot on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press \square or a number button on the Remote Commander.
- Press the MENU button.
The LANGUAGE menu appears. (See Fig. 1)
- Select the language you want with $\Delta+$ or $\nabla-$ and press OK.

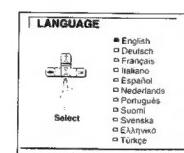


Fig. 1

2 Display the Menu

Press the MENU button twice.
The main menu appears. (See Fig. 2)
Using $\Delta+$ or $\nabla-$ select the symbol and press OK.

Now, choose one of the methods described overleaf:

»Preset Channels Automatically«

or

»Preset Channels Manually«.

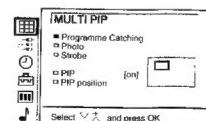


Fig. 2

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting:
Press \leftarrow on the Remote Commander.

Notes:
• After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see «Displaying the Programme Table» on page 46.

• You can sort the programme positions to have them appear on screen in the order you like. For details, see «Sorting Programme Positions» on page 41.

Programme names are automatically taken from Teletext if available. If not, please refer to page 43 «Captioning a Station name» for more information.

3 Preset channels automatically

- Select the symbol for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears. (See Fig. 3.)
- Select »Auto Programme« with $\Delta+$ or $\nabla-$ and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)
- Press OK.
- Select if necessary the TV broadcast system (B/G for Western European or D/K for Eastern European countries) with $\Delta+$ or $\nabla-$ and press OK. The first element of the »PROG« number will be highlighted.
- Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with $\Delta+$ or $\nabla-$ or the number buttons (e.g. For »04«, select »0« here) and press OK. The second element of »PROG« will be highlighted.
- Select the second element of the double-digit number with $\Delta+$ or $\nabla-$ or the number buttons (e.g. For »04«, select »4« here) (See Fig. 5.) and press OK.
- Select »C« or »S« with $\Delta+$ or $\nabla-$ and press OK. The automatic channel presetting starts.

When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. Press MENU to restore normal TV picture.

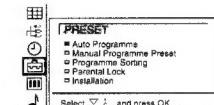


Fig. 3

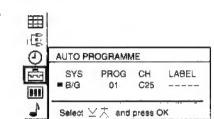


Fig. 4

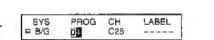


Fig. 5

3 Preset channels manually

- Select the symbol for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears. (See Fig. 6.)
- Select »Manual Programme Preset« with $\Delta+$ or $\nabla-$ and press OK.

The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

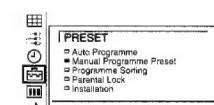


Fig. 6

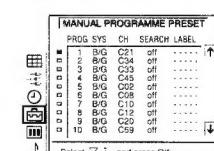


Fig. 7

To tune in a channel by frequency:
After selecting F in step 6, enter three digits using the number buttons.
Press OK.

- 3 Using $\Delta+$ or $\nabla-$, select the programme position (number button) to which you want to preset a channel, and press OK.
- 4 Select, if necessary the TV broadcast system or a video input source (EXT) with $\Delta+$ or $\nabla-$.
- 5 Then press OK. The CH position will be highlighted. (See Fig. 8.)
- 6 Using $\Delta+$ or $\nabla-$, select C (to preset a regular channel), S (cable channel) or F (to tune in by frequency) and press OK. The first element of the »CH« number will be highlighted. If you have selected EXT in step 5, select the video input source with $\Delta+$ or $\nabla-$. (See Fig. 9.)

There are two ways to preset channels. If you know the channel number, go to step »7-Manual«.

or

If you don't know the channel number, go to step »7- Search«.

7 Manual

- a Select the first element of the »CH« number with $\Delta+$ or $\nabla-$ or the number buttons and press OK. The second element of the »CH« number will be highlighted.
- b Select the second element of the number with $\Delta+$ or $\nabla-$ or the number buttons. The selected number appears. (See Fig. 10.)
- c Press OK. The »SEARCH« position is highlighted and the selected channel is now stored. (See Fig. 11.)
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.

7 Search

- a Press OK repeatedly until the colour of the SEARCH position changes.
- b Start searching for the channel with $\Delta+$ (up) or $\nabla-$ (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- c Press OK if you want to store this channel. If not, press $\Delta+$ or $\nabla-$ to continue channel searching.
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.

If you have made a mistake:
Press \leftarrow to go back to the previous position.
To go back to main menu:
Keep pressing \leftarrow .
To go back to the normal TV picture:
Press MENU.

Fig. 8

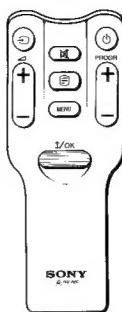
Fig. 9

Fig. 10

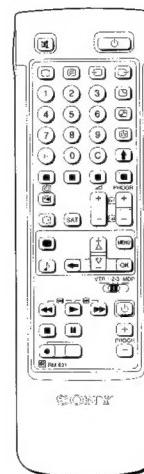
Fig. 11

Fig. 12

Fig. 13



PROGRAMME SORTING



INSTALLATION

For higher programme positions:
The display scrolls automatically.

If you have made a mistake:

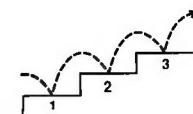
Press \leftarrow to go back to the previous position.

To go back to main menu:

Keep pressing \leftarrow .

To go back to the normal TV picture:
Press MENU.

Additional Presetting Functions



This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible
- Locate the Menu operation buttons.

Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
- 3 Select »Programme Sorting« with $\Delta+$ or $\nabla-$ and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using $\Delta+$ or $\nabla-$ select the programme position which you want to move to another and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using $\Delta+$ or $\nabla-$ select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to sort other programme positions.

PROGRAMME SORTING		
PROG	CH	LABEL
1	C03	BBC 2
2	C03	BBC 2
3	C07	MBC
4	C09
5	C11
6	C13
7	C15	BBC 1
8	C15	BBC 1

Fig. 14

■ 8 C15 BBC 1

Fig. 15

PROGRAMME SORTING		
PROG	CH	LABEL
1	C15	BBC 1
2	C03	BBC 2
3	C07	MBC
4	C09
5	C11
6	C13
7	C14
8	C14

Fig. 16

How to adjust the Picture Rotation

If due to the earth magnetism the picture »slants«, you can use the function »Picture Rotation« to readjust the picture.

- 1 Press MENU to display the main menu.
- 2 Select the symbol for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
- 3 Select »Installation« with $\Delta+$ or $\nabla-$ and press OK. The INSTALLATION menu appears.
- 4 Select »Picture Rotation« with $\Delta+$ or $\nabla-$ and press OK. The PICTURE ROTATION menu appears. (See Fig. 17.)
- 5 Press OK. Adjust the picture rotation with $\Delta+$ or $\nabla-$ until you have an upright picture. As you press the cursor buttons, the range changes from -4 to +4.
- 6 Press OK to store the adjustment.

PICTURE ROTATION	
■ Rotation	[0]
Select and press OK	

Fig. 17

INSTALLATION**Using »Further Programme Preset«**

Using the menu »Further Programme Preset« you can

- individually adjust and store the volume level of each channel (Volume offset).
 - in case of a strong sound signal (distorted sound), attenuate the sound signal for each programme position.
 - use the manual fine tuning to obtain a better picture reception, if the picture is distorted. Normally the AFT (automatic fine tuning) is operating.
- Press MENU to display the main menu.
 - Select the symbol  for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
 - Select »Installation« with $\Delta+$ or $\nabla-$ and press OK. The INSTALLATION menu appears.
 - Select »Further Programme Preset« with $\Delta+$ or $\nabla-$ and press OK. The FURTHER PROGRAMME PRESET menu appears (See Fig. 18).
 - Using $\Delta+$ or $\nabla-$ select the desired programme position and press OK once to select a) VOL (Volume offset), twice to select b) »IN-AMP« (Input Amplifier) or three times to select c) AFT (Automatic Fine Tuning). The selected item changes colour.

To adjust or change:

- Volume offset (VOL)**
Using $\Delta+$ or $\nabla-$ you can adjust the volume level for the selected programme position within a range from -7 to +7. Press OK to store the volume level.
Repeat step 5 to set the volume level for other programme positions.
 - IN-AMP (Input amplifier)**
Using $\Delta+$ or $\nabla-$ select »Off« for the selected programme position. Press OK to confirm the selection. Repeat step 5 to switch off the input amplifier for other programme positions.
 - AFT**
Using $\Delta+$ or $\nabla-$ you can fine-tune the channel within a range from -15 to +15. Press OK to store the fine-tuned level. Repeat step 5 to fine-tune the other channels.
- Press MENU to return to the normal TV mode.

To reactivate AFT
(Automatic Fine Tuning)
Repeat from the beginning and select
»ON« in step 5.

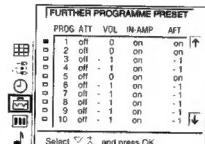


Fig. 18

MANUAL PROGRAMME PRESET**Skipping Programme Positions**

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- Press MENU to display the main menu.
- Select the symbol  for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
- Select »Manual Programme Preset« with $\Delta+$ or $\nabla-$ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 19.)
- Using $\Delta+$ or $\nabla-$, select the programme position which you want to skip and press OK. The »SYS« position changes colour.
- Press $\Delta+$ or $\nabla-$ until »--« appears in the SYSTEM position. (See Fig. 20.)
- Press OK. (See Fig. 21.) When you select programmes using the PROGR +/- buttons, the programme position will be skipped.
- Repeat steps 4 to 6 to skip other programme positions.



Fig. 19



Fig. 20



Fig. 21

MANUAL PROGRAMME PRESET**Captioning a Station Name**

Programme names are usually automatically taken from Teletext if available. You can also »name« a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- Press MENU to display the main menu.
- Select the symbol  for »Preset« with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
- Select »Manual Programme Preset« with $\Delta+$ or $\nabla-$ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 22.)
- Using $\Delta+$ or $\nabla-$, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- Select a letter or number with $\Delta+$ or $\nabla-$ and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select -- and press OK. (See Fig. 23.)
- After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 24.)
- Repeat steps 5 and 6 to caption names for other channels.

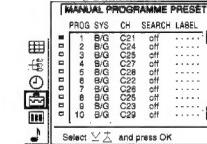


Fig. 22

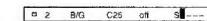


Fig. 23

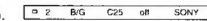


Fig. 24

PARENTAL LOCK

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select the symbol  for «Preset» with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
- 3 Select «Parental Lock» with $\Delta+$ or $\nabla-$ and press OK. The PARENTAL LOCK menu appears. (See Fig. 25.)
- 4 Using $\Delta+$ or $\nabla-$, select the programme position you want to block and press OK. The symbol  appears in front of the programme number indicating that this programme is now blocked. (See Fig. 26.)
- 5 Repeat step 4 to block other programme positions.

If you try to select a programme that has been blocked:
The message
«LOCKED» appears on the blank TV screen.

Cancelling blocking

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with $\Delta+$ or $\nabla-$.
- 2 Press OK. The symbol  disappears indicating that the blocking has been cancelled.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander. For cable channels, press C twice. The indication «C» («S» for cable channels) appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.

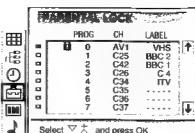


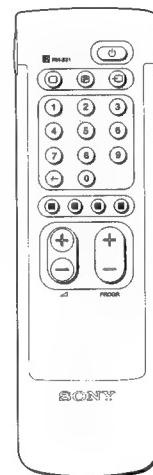
Fig. 25

PROG	CH	LABEL
0	AV1	VHS
1	C25	BBC 3
2	C43	BBC 1
3	C42	BBC 2
4	C35	ITV
5	C36	---
6	C37	---
7	C38	---

Fig. 26

Operating Instructions

Watching the TV



This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress \odot on the TV.

Switching off temporarily

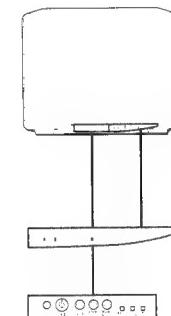
Press \odot on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press \square , PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress \odot on the TV.



Selecting TV Programmes

Press PROGR +/- or the number buttons.

To select a double-digit number

Press $-/-$, then the number.

For example, if you want to choose 23, press $-/-$, 2 and 3.

If no picture appears when you depress \odot on the TV and if the standby indicator on the TV is lit, the TV is in standby mode. Press \square or one of the number buttons to switch it on.

Adjusting the Volume

Press $\triangleleft/\triangleright$.

Operating the TV Using the Buttons on the TV

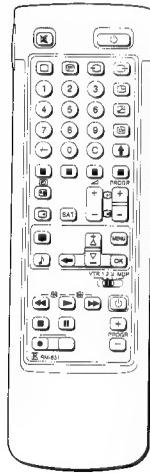
- With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

Press $P \rightarrow \triangleleft \rightarrow \triangleright \square$ button repeatedly until the programme

number, \triangleleft (for volume), or \square (for video input picture) appears. Then adjust with the $\triangleleft/\triangleright$ buttons.

• Press \rightarrow/\leftarrow buttons to switch on the TV from the standby mode.

• Press \rightarrow/\leftarrow simultaneously to reset picture and sound controls to the factory preset level (RESET function).



For details of the teletext operation, refer to page 53.

For details of the video input picture, refer to page 56.

Watching Teletext or Video Input

Watching teletext

- Press to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext operation.
- Press or (PAGE →) for the next or preceding page.
- To go back to the normal TV picture, press .

Watching a video input picture

Press repeatedly until the desired video input appears. To go back to the normal TV picture, press .

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press once to display all the indications. They will disappear after some seconds.
- Press twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

Press .
To resume normal sound, press again.

Displaying the time

Press . This function is available only when teletext is broadcast.

To make the time display disappear, press again.

Displaying the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See Fig.27).

Selecting TV programmes

Press PROGR +/- or select the desired programme position using or and press OK.

To make the Programme Table disappear, press MENU.

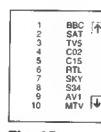
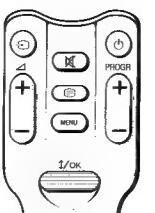


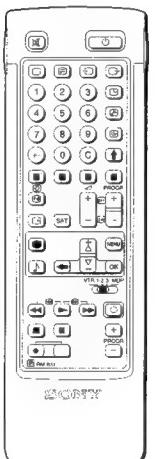
Fig. 27

If you have made a mistake:
Press to go back to the previous position.
To go back to the main menu:
Keep pressing .
To go back to the normal TV picture:
Press MENU.
• Hall Surround and Dolby Pro Logic are not available via headphones.
Note on LINE OUT:
The audio level and the dual sound mode output from the on the rear correspond to the HEADPHONES VOLUME and DUAL SOUND settings.
When watching a video input source with stereo sound:
You can select DUAL SOUND to change the sound.
For setting the balance:
See page 49 »Level settings of left and right speaker.



PICTURE CONTROL

SOUND CONTROL



Adjusting and Setting the TV Using the Menu

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can reduce the picture noise. You can also select dual sound (bilingual) programmes when available, adjust the sound for listening with the headphones (). Also you have the possibility to adjust the sound to your individual taste using the Graphic Equalizer and special Sound effects.

- Press (for picture) or (for sound) on the Remote Commander.
- Press MENU and select on the screen the symbol for Picture Control or Sound Control, then press OK. The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 28 or Fig. 29)
- Using or , select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 30)
- Adjust the setting with or and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 31)
For the effect of each control, see the table below.
- Repeat steps 2 and 3 to adjust other items.

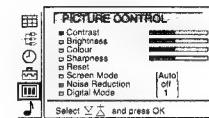


Fig. 28

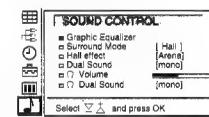


Fig. 29



Fig. 30



Fig. 31

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less More
Brightness	Darker Brighter
Colour	Less More
Hue (only for NTSC)	Greenish Reddish
Sharpness	Softer Sharper
Reset	Resets picture to the factory preset levels.
Screen Mode	Auto (automatic selection of 16:9 broadcasts decoded in 4:3) → 4:3 Normal → 16:9 Wide screen effect
Noise Reduction	Off: Normal on: Reduction of picture noise in case of weak signals
Digital Mode	I: Normal II: LFR (Line Flicker Reduction) off

SOUND CONTROL	Effect
Graphic Equalizer	(See page 49 for more information)
Surround Mode	Off: Normal → Dolby → Hall
Hall Effect (only if «Hall» is on)	Choice between different hall effects Room Dome Arena
Dual Sound	A : left channel B : right channel Stereo Mono
Headphones:	The selected mode of the A--B indicator on the TV lights up.
Volume	Less More
Dual Sound	A: channel 1 → B: channel 2 → PIP (if PIP is switched on you can select the PIP sound for the headphones) → Stereo Mono

Dolby Pro Logic Set Up

With Dolby Pro Logic Surround you can experience »three dimensional« sound when receiving Dolby Surround encoded programmes.

This menu enables you to adapt the Dolby Pro Logic Surround features to your individual requirements.

Adjusting the sound level of the speakers

Dolby Pro Logic uses 4 sound channels to supply 5 speakers: Left and right: Left and right TV speakers

Centre: Centre speaker for dialogues

Surround: Surround speakers for surround sound effect

Using »Level Settings« a noise generator enables you to adjust the sound levels of the speakers to your individual listening position. From your listening position all sound levels should be the same.

- Notes:**
- Make sure to connect your own or the supplied speakers to the set.
 - (See page 36).
 - Select »On« for Dolby Pro Logic when receiving Dolby Surround encoded programmes.
 - This adjustment is necessary only once when you install the TV and the speakers or change their positions.

- 1 Press MENU, select the symbol on the screen for »Preset« and press OK. Then select »Installation« and »Dolby Pro Logic Set Up« using $\Delta+$ or $\nabla-$ and press OK. The Dolby ProLogic SET UP menu appears (See Fig. 32).
- 2 Press OK. The cursor moves to Left (sound level of the left speaker) (See Fig. 33) and you hear a test tone from the left speaker.
- 3
 - a) To change the level: Press OK and adjust the highlighted bar by pressing $\Delta+$ or $\nabla-$ repeatedly. Press OK to confirm the adjustment.
or
 - b) To go on the next bar: Press $\Delta+$ or $\nabla-$ to select Centre, Right or Surround. Adjust using step 3a).
- 4 Repeat steps 3a and b to adjust all sound levels.
- 5 Press \leftarrow to exit »Level Settings« and Menu to return to the normal TV screen.

Setting Speaker Mode and Delay Time

- 1 Select »Dolby ProLogic Set Up« in the »Installation« menu using $\Delta+$ or $\nabla-$ and press OK.
- 2 Press $\nabla-$ to select »Speaker Mode« and press OK. Using $\Delta+$ or $\nabla-$ select
Normal: if all speakers are activated
Phantom: if the centre speaker is not activated
3 stereo: if the surround speakers are not activated
Press OK to confirm your selection.
- 3 Press $\nabla-$ to select »Delay Time« and press OK. You can select a time delay for the sound of the surround speakers which depends on your room size (e.g. 20ms for standard rooms, 30 ms for small rooms)
15 ms \rightarrow 20 ms \rightarrow 25 ms \rightarrow 30 ms

Press OK to confirm your selection.
- 4 Press MENU to return to the normal TV screen.



Fig. 32



Fig. 33

Note: The modifications made in »USER« mode will be stored. All other settings are reset to factory-set level when you change to another mode.

Graphic Equalizer

Using this function you can individually adjust the sound by cutting and boosting selected frequencies. You can also select between the following modes:

- Flat \Rightarrow Pop \Rightarrow Rock \Rightarrow Jazz \Rightarrow Vocal \Rightarrow User
- 1 Select »Sound Control« in the main menu, then select »Graphic Equalizer« using $\Delta+$ or $\nabla-$ and press OK. The GRAPHIC EQUALIZER menu appears (See Fig. 34).
 - 2 Press OK. The colour of »Mode« changes. Select the desired mode with $\Delta+$ or $\nabla-$ and press OK.
 - 3 If you want to modify a mode, select the desired bar of a frequency band using $\Delta+$ or $\nabla-$ and press OK. The selected frequency changes colour. Using $\Delta+$ or $\nabla-$ adjust the level of frequency and press OK. In this way you can adjust all 5 graphic bars.
 - 4 Press MENU to return to the normal TV mode.

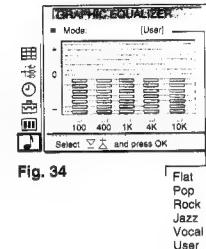


Fig. 34

Flat
Pop
Rock
Jazz
Vocal
User

Preset Dolby Pro Logic

To enjoy programmes encoded in Dolby Surround sound, switch on »Dolby Pro Logic« in the sound menu.

- 1 Press on the Remote Commander. The SOUND CONTROL menu appears.
 - 2 Using $\Delta+$ or $\nabla-$ select »Surround Mode« and press OK.
 - 3 Using $\Delta+$ or $\nabla-$ select »Dolby« and press OK.
- After the end of the broadcast make sure to return the setting to »OFF«.

TIMER

To switch off the timer:
Select »OFF« in step 3.

To check the remaining time:
Press .

To go back to the normal TV picture:
Press MENU.

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- 1 Using $\Delta+$ or $\nabla-$ select the symbol for »Timer« and press OK. The TIMER menu appears (see Fig. 35).
- 2 Press OK.
- 3 Select the time period with $\Delta+$ or $\nabla-$. The time period (in minutes) changes as follows:
10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90
- 4 After selecting the time period, press OK. The cursor moves back to the left margin and the timer starts counting. One minute before the TV switches into standby mode, a message is displayed on the screen.

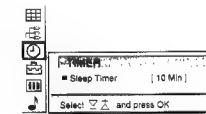
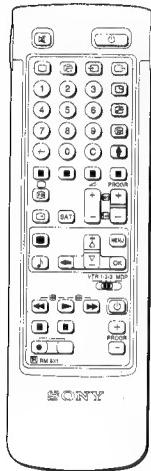
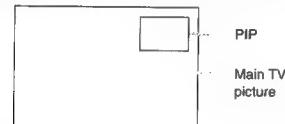


Fig. 35

PIP (Picture in Picture)



With this function you can display a »PIP screen« (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa. For information about connection of other equipment, refer to page 55.



Switching PIP on and off

Press .

The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To switch PIP off
Press again.

Selecting a PIP source

Press .

The symbol will be displayed at the bottom, left-hand corner of the screen.

Press repeatedly until the desired source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4).

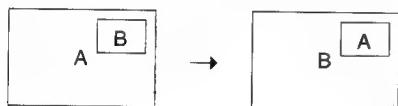
Note

If no video source has been connected, the PIP picture will be noisy.

Swapping screens

Press .

The main screen will switch the picture with the PIP screen.

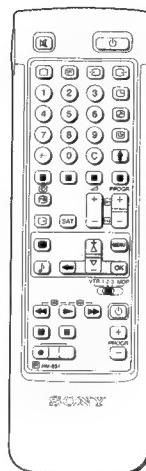
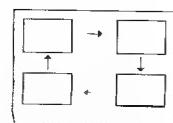


Note

If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press and then the programme buttons or PROGR +/-.

Changing the position of the PIP

Press repeatedly to change the position of the PIP screen within the main screen. There are four different positions available.



Operating Multi PIP using the Menu

Using the »Multi PIP« Menu you have the possibility to operate the PIP mode, scan 9 successive TV channels on the screen (Programme Catching), display 8 successive freeze pictures (Photo mode) or reproduce the main picture image by image (strobe function).

1 Press MENU to display the main menu.

2 Select the symbol for »MULTI PIP« with or and press OK. The MULTI PIP menu appears (See Fig. 36).

a) Programme Catching

Using or select »Programme Catching« and press OK. Now a scan of 9 successive programmes (8 still pictures, 1 live picture where the cursor is positioned) is displayed on the TV screen starting from the programme tuned in. Using or you can move the cursor and update the still pictures. The programme scanning starts again if you select the programme position lower or higher than the 9 displayed ones (See Fig. 37).

b) Photo Mode

Using or select »Photo« and press OK. Now the main picture is displayed as a succession of 8 still pictures and a 9th picture which will be live (See Fig. 38). Using or – the photo mode starts again. Press OK to return to the normal TV mode.

c) Strobe mode

Using or select »Strobe« and press OK. Now the TV picture is displayed image by image, which gives it the effect of slow motion (See Fig. 39). Using or – select the speed of the motion (3 different speeds are available). Press OK to return to the normal TV mode.

d) Switching PIP on and off

Using or select »PIP« and press OK. Using or – select »ON« to display the PIP screen and »OFF« to switch it off and press OK.

e) Changing the position of the PIP

Using or – select »PIP position« and press OK. Using or – repeatedly to change the position of the PIP screen and press OK.

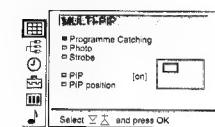


Fig. 36

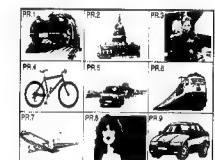


Fig. 37

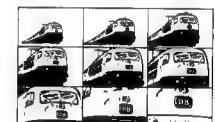


Fig. 38

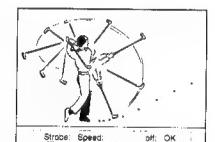
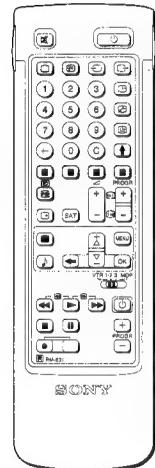


Fig. 39

Teletext



TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press to switch on teletext. A teletext page will be displayed (usually the index page). If there is no teletext broadcast, »No text available« is displayed on the information line at the top of the screen.

To switch teletext off

Press .

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. Using $\Delta+$ or $\nabla-$, select the desired page. »Page Catching« will be displayed on the information line. Press OK. The requested page will appear in a few seconds.

Press to resume normal teletext reception.

Accessing the next or preceding page

Press (PAGE +) or (PAGE -).

The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press once in teletext mode or twice in TV mode.
- Press again to resume normal teletext reception.

Preventing a teletext page from being updated

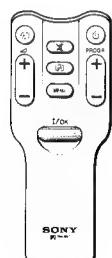
- Press (HOLD). The HOLD symbol is displayed on the information line.
- Press to resume normal teletext reception.

Using Fastext

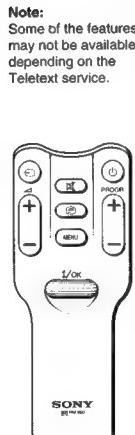
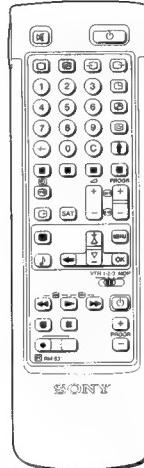
With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote

Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.



Note:
Fastext operation is only possible, if the TV station broadcasts Fastext signals.



To cancel the request:
Select »OFF« for the TIME PAGE setting.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- 1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 40)
- 2 Using $\Delta+$ or $\nabla-$, select the teletext function you want and press OK. (See Fig. 41)

USER PAGES/PRESET USER PAGES

See page 54 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 42).

Press $\Delta+$ for »Top« to enlarge the upper half. For »Bottom« keep pressing $\nabla-$, to enlarge the lower half. Press OK for »Full« to resume the normal size.

Press to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (See Fig. 43). Press to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line »REVEAL ON/OFF« will be displayed. (See Fig. 44).

Using $\Delta+$ or $\nabla-$, select ON to reveal the information or OFF to conceal it again.

Press to resume normal teletext reception.

TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

- 1 Press OK. Using $\Delta+$ or $\nabla-$ select ON and press OK.
- 2 To select the desired page, enter the three digits of the page number (e.g. g. 301) using the number buttons.
- 3 To select the time, enter four digits for the desired time (e.g. 1800) using the number buttons. Press MENU. The selected time is displayed at the top in the left-handed corner. At the requested time, the page will be displayed.

Press to resume normal teletext mode.

TELETEXT MENU
User Pages
Index
Top/Bottom/Full
Text Clear
Subtitles
Reveal
Page
Subpage
Preset User Pages

Select and press OK

Fig. 40

TELETEXT MENU
User Pages
Index
Top/Bottom/Full
Text Clear
Subtitles
Reveal
Page
Subpage
Preset User Pages

Select and press OK

Fig. 41

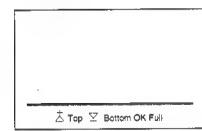


Fig. 42

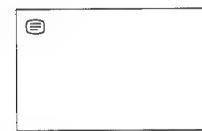


Fig. 43

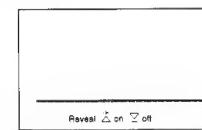


Fig. 44

To cancel the request:
Select »Subpage« and press OK.

If two broadcasting stations use the same Teletext:
You can preset one bank to 2 different programme positions.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR+/- or the number buttons. (e.g. enter 0002 for the second page of a sequence).

User Page Bank System

You can store up to 30 pages in the »Teletext page bank system«. In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 »banks« (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- 1 Press (if Teletext is not on already) and MENU to show the TELETEXT MENU display.
- 2 Select PRESET USER PAGES with $\Delta+$ or $\nabla-$ and press OK.
- 3 Select the desired bank with $\Delta+$ or $\nabla-$ and press OK. The cursor will go to the first position (P1) of the preferred pages.
- 4 Input the three digits of your first preferred page with the number buttons and press OK. The cursor will go to the second position.
- 5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
- 6 Select Allocate Bank with $\Delta+$ or $\nabla-$ and press OK.
- 7 Select the programme position for which you have preset pages with $\Delta+$ or $\nabla-$ and press OK. (See Fig. 45)
- 8 Select the desired bank with $\Delta+$ or $\nabla-$ (Banks A to E are available) and press OK.
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- 1 Select MENU.
- 2 Select User Pages with $\Delta+$ or $\nabla-$ and press OK. A table of the stored preferred pages will be displayed. (See Fig. 46)
- 3 Select the desired page with $\Delta+$ or $\nabla-$ and press OK. The page will be displayed after some seconds.

or

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.

PRESET USER PAGES						
BANK	P1	P2	P3	P4	P5	
A	306	255	456	234	200	179
B	301	303	301	300	550	345
C	109	220	220	244		
D	128	321	255			
E	400	238	240	118	127	

Fig. 45

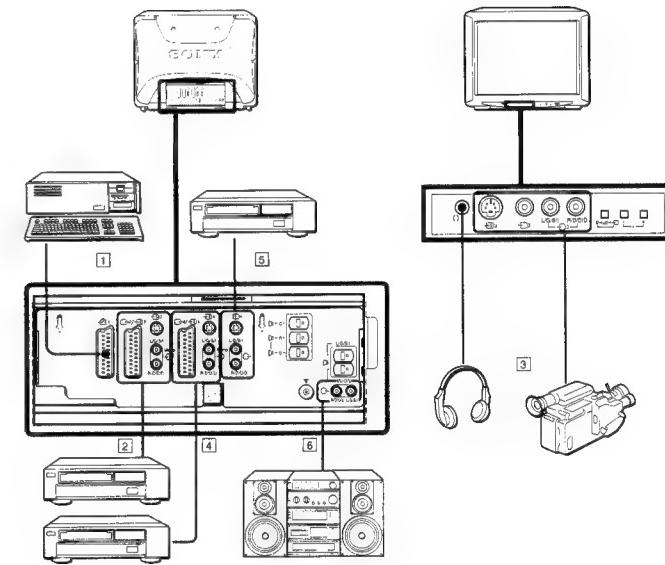
USER PAGES - BANK B					
<input type="checkbox"/>	PAGE 200	<input type="checkbox"/>	PAGE 200	<input type="checkbox"/>	PAGE 200
<input type="checkbox"/>	PAGE 200	<input type="checkbox"/>	PAGE 200	<input type="checkbox"/>	PAGE 200
<input type="checkbox"/>	PAGE 200	<input type="checkbox"/>	PAGE 200	<input type="checkbox"/>	PAGE 200
<input type="checkbox"/>	PAGE 234	<input type="checkbox"/>	PAGE 234	<input type="checkbox"/>	PAGE 234
<input type="checkbox"/>	PAGE 159	<input type="checkbox"/>	PAGE 159	<input type="checkbox"/>	PAGE 159

Fig. 46

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VCRs, video disc players, and stereo systems.



To connect a VCR using the T terminal
Connect the aerial output of the VCR to the aerial terminal "T" of the TV.

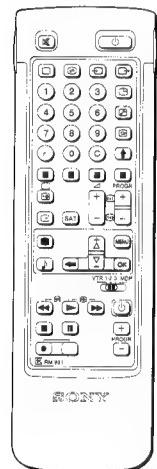
We recommend that you tune in the signal to programme number >0<. For details see »Preset Channels Manually« on page 39.

If the picture or the sound is distorted
Move the VCR away from the TV.

S video input (Y/C input)
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 3 S Video input jacks through which these separated signals can be input directly.

When connecting a monaural VCR:
Connect only the white \ominus jack to both the TV and VCR.

Acceptable input signal	Available output signal
[1] Normal audio/video and RGB signal	Video/audio from TV tuner
[2] Normal audio/video and S video signal	Video/audio from selected source
[3] Normal audio/video and S video signal	No outputs
[4] Normal audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
[5] No inputs	S video/audio signal displayed on TV screen (monitor out)
[6] No inputs	Audio signal (variable)



Selecting input with PROGR +/- or number buttons:
You can preset video input sources to the programme positions so that you can select them with PROGR +/- or number buttons.
For details, see «Preset channels manually» on page 38.

Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press repeatedly to select the input source. The symbol of the selected input source will appear.

To go back to the normal TV picture

Press .

Input modes

Symbol	Input signal
	Audio/video input through the connector
	RGB input through the connector
	Audio/video input through the connector
	S video input through the or connector
	Audio/video input through and at the front
	S video input through the (4-pin connector) at the front
	Audio/video input through the connector
	S video input through the or (4-pin connector)

You can also select the input mode using the → and → buttons on the TV.

In this case, select first and then press the buttons to select the input.

Selecting the output

The connector outputs the source input from the other connectors.

You can also select the input mode using the and buttons on the TV. In this case, select first and then press the buttons to select the input.

Symbol	connector outputs
1	The audio/video signal from the connector
2	The audio/video signal from the connector
2	The audio/video signal from the connector
3	The audio/video signal from the , connectors
3	The audio/video signal from the , connectors
4	The audio/video signal from the connector
4	The audio/video signal from the connector
TV	The audio/video signal from the terminal

Using AV Preset

Using this function you can preset the desired input source (e.g. , RGB signal) to the respective AV input (AV 1). In this way a connected VTR will automatically switch to the RGB signal.

- 1 Select the symbol for «Preset» with or and press OK.
- 2 Select first «Installation», then «AV Preset» with or and press OK.
The AV PRESET menu appears (See Fig. 47).
- 3 Select the desired AV input with or and press OK.

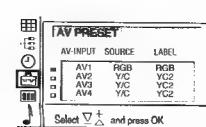
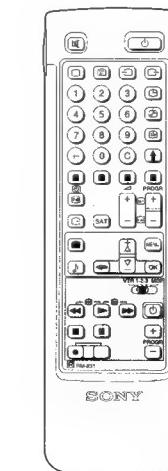


Fig. 47



When recording
When you use the (record) button, make sure to press this button and the one to the right of it simultaneously.

- 4 Select the desired source with or and press OK.
For the respective AV inputs you have the following possibilities:

AV 1 RGB or AV AV 3 YC3 or AV
AV 2 YC2 or AV AV 4 YC or AV

- 5 If you want to name the AV input select «Label» using or and press OK. Select a letter or a number with or and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select – and press OK.
After having selected all the characters, press OK repeatedly until the cursor appears by the next AV input at the left margin.
- 6 Repeat steps 3 to 5 for the other AV inputs.

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

- 1 Select the symbol for «Video Connection» with or and press OK. The VIDEO CONNECTION menu appears. (See Fig. 48)
- 2 You can see which source is selected for the TV and PIP input, and for the output. If you want to select the input and output on this menu, go on to the next step.
- 2 Select TV Screen (input source for the TV screen), PIP (input source for the PIP screen), or output (output source) with or and press OK. One of the source items changes colour.
- 3 Select the desired source with or .
For details about each source, see the table on page 56.
- 4 Press OK.
The selected source is confirmed, and the cursor appears.
- 5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

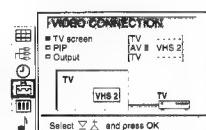


Fig. 48

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control other Sony remote-controlled video equipment. The buttons for video operation have been factory-set to control most of Sony video equipment, such as: Beta, 8mm or VHS VCRs or video disc players.

Tuning the Remote Commander to the equipment

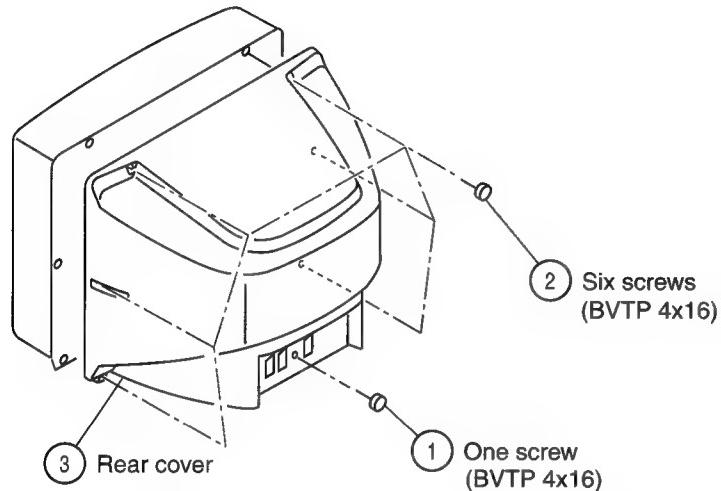
- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:
VTR 1: Beta VCR
VTR 2: 8mm VCR
VTR 3: VHS VCR
MDP: Video disc player
- 2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

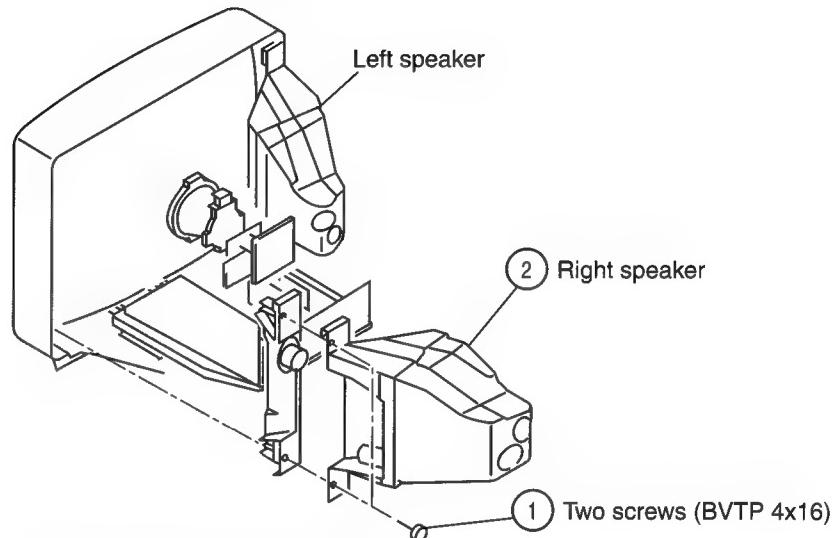
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

SECTION 2 DISASSEMBLY

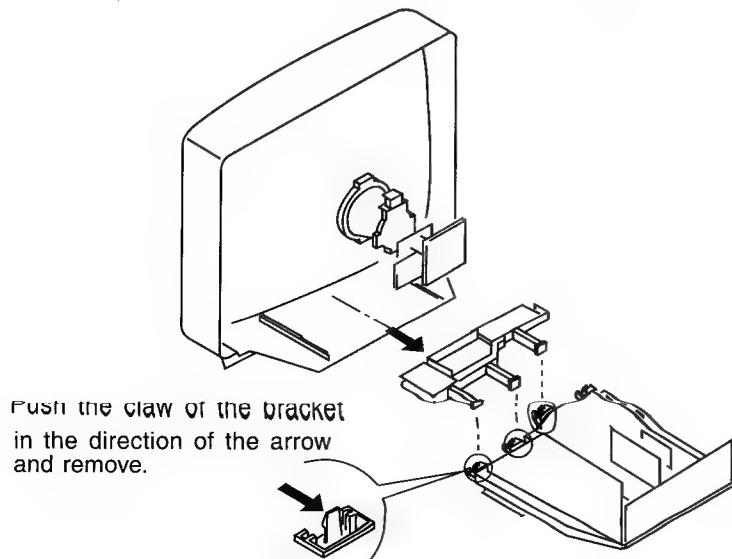
2-1. REAR COVER REMOVAL



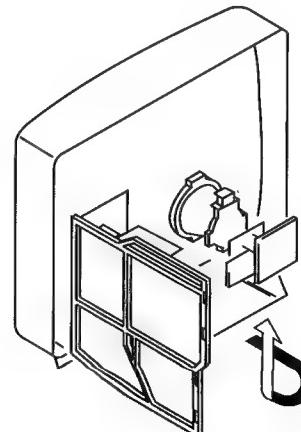
2-2. SPEAKER REMOVAL



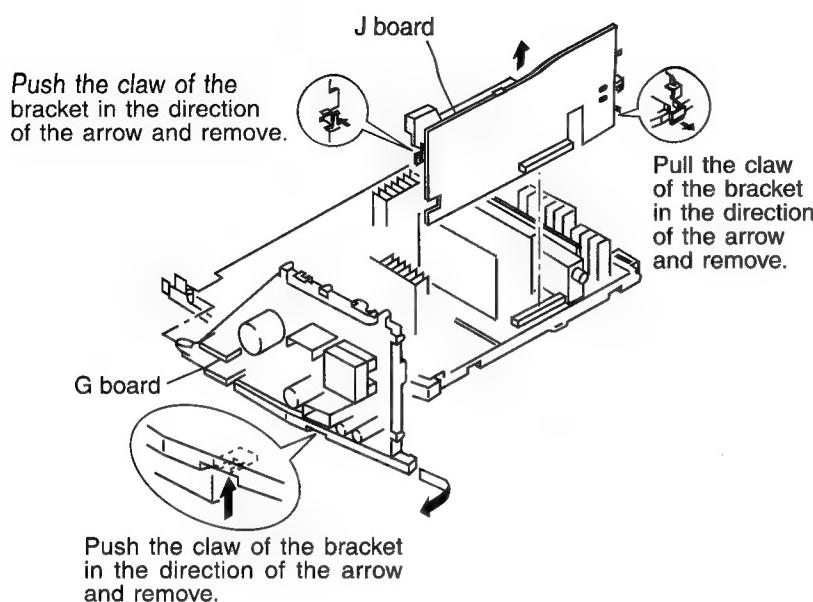
2-3. CHASSIS ASSY AND H BRACKET REMOVAL



2-4. SERVICE POSITION



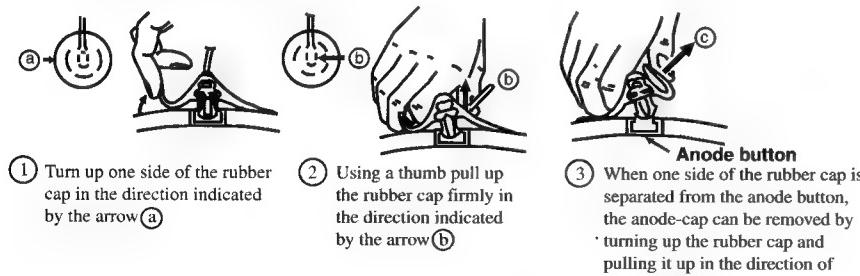
2-5. G AND J BOARD REMOVAL



• REMOVAL OF ANODE-CAP

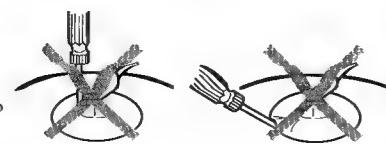
Note : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

• REMOVING PROCEDURES.

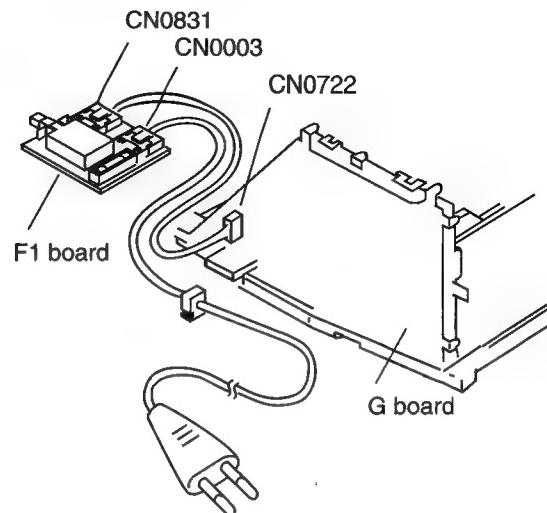


• HOW TO HANDLE AN ANODE-CAP

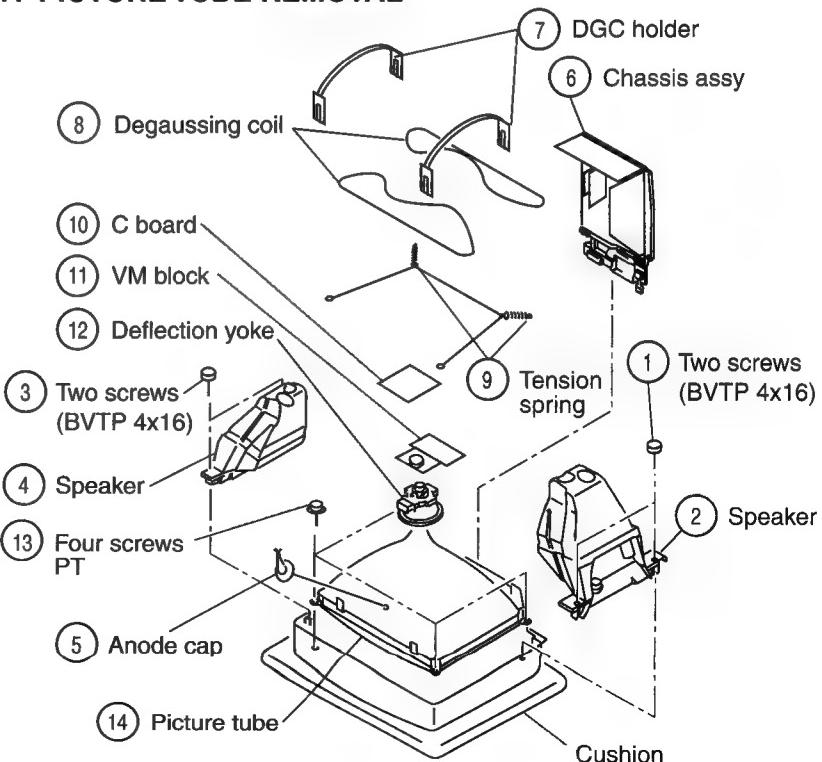
- ① Don't damage the surface of anode-cap with sharp shaped material !
 - ② Don't press the rubber hard not to hurt inside of anode-caps !
 - ③ Don't turn the foot of rubber over hardy !
- A metal fitting called as shatter-hook terminal is built into the rubber.
- The shatter-hook terminal will stick out or damage the rubber.



2-6. WIRE DRESSING



2-7. PICTURE TUBE REMOVAL



SECTION 3

SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustment with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches as follows.

Contrast normal
 Brightness normal

- Carry out the following adjustments in this order:
- 3-1. Beam landing
 - 3-2. Convergence
 - 3-3. Focus
 - 3-4. White balance

Note: Testing equipment required.

1. Colour bar/pattern generator
2. Degausser
3. Vector scope

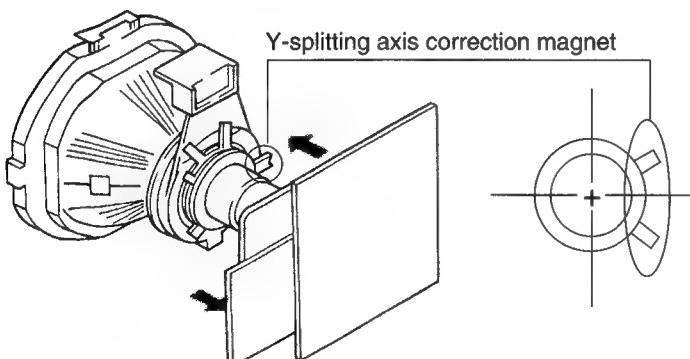
3-1. BEAM LANDING

Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube face it in an easterly or westerly direction.
2. Switch on the set's power and degauss with the degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis

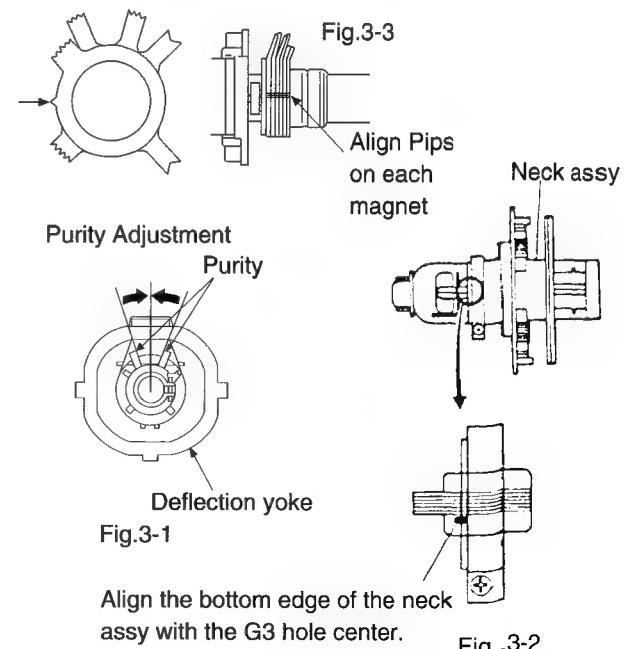
1. Input a crosshatch signal from the pattern generator.
2. Picture control is minimum and brightness control is still normal.
3. Position the neck assy as shown in Fig. 3-2.
4. Move the deflection yoke forward to touch the CRT and it stands up rightly.
5. Adjust the upper pin and the lower pin symmetrically by opening or closing the Y-splitting axis correction magnets on the neck assy.
6. Return the deflection yoke to its original position.



(2) Landing

Note: Before carrying out the following adjustments adjust the magnets as indicated below (See Fig.3-3).

1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the brightness setting.
2. Rough-adjust the focus and horizontal convergence.
3. Loosen the deflection yoke screws, align the purity adjustment knob to the central position. (See Fig. 3-1)
4. Switch from the all-white pattern to an all-green pattern.
5. Move the deflection yoke backwards and adjust with the purity magnet so that the green is at the center and it aligns symmetrically. (See Fig. 3-4)
6. Move the deflection yoke forward and adjust so that entire screen becomes green.
7. Switch the raster signal to red, then to blue and verify the landing condition.
8. When the position of the deflection yoke has been determined, fasten the deflection yoke with the screw.
9. If the beam does not land correctly in all the corners, use magnets to correct it. (See Fig. 3-5)



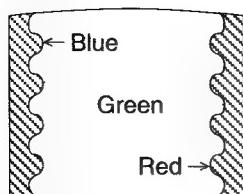


Fig.3-4

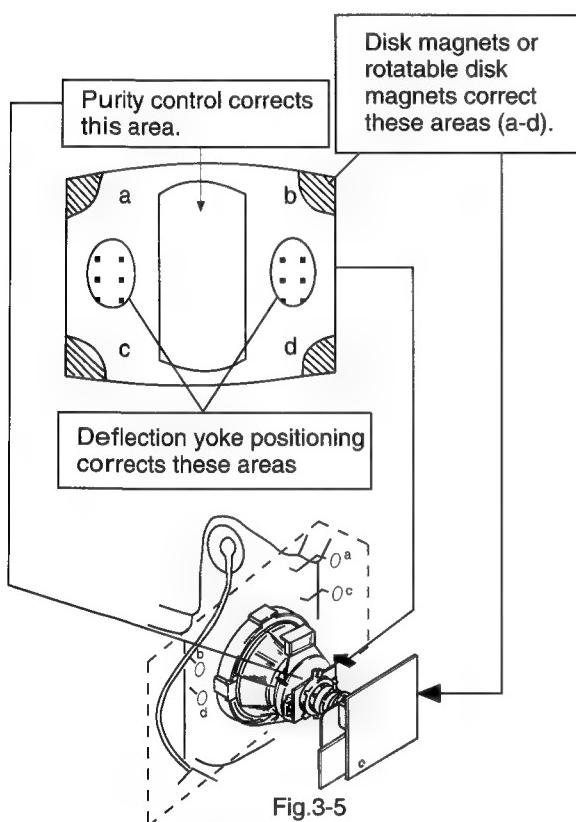
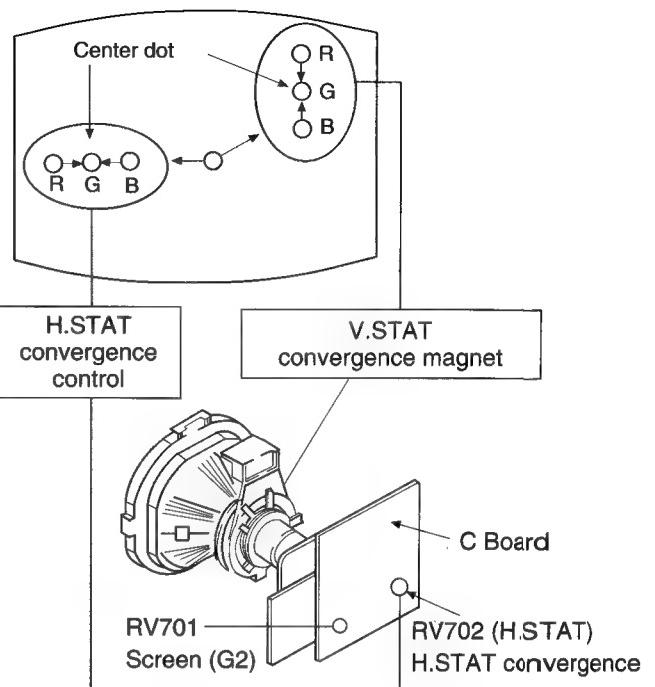
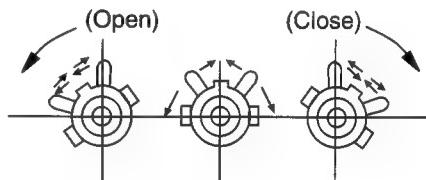


Fig.3-5

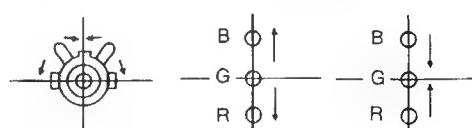


- If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking. (Adjust the convergence by tilting the V.STAT convergence or by opening or closing the V.STAT convergence.)



- Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.

- By opening or closing the V.STAT magnet, the red, green and blue points move as shown below



- By rotating the V. STAT magnet counterclockwise, the red, green and blue dots move as shown below.

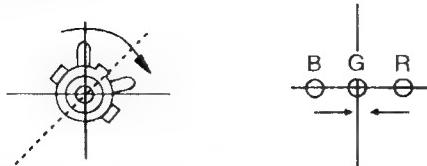


3-2. CONVERGENCE

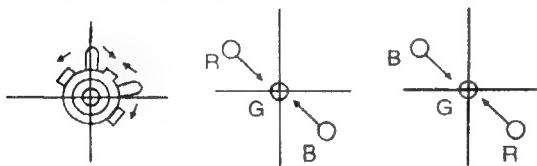
(1) Screen center convergence (Static convergence)

- Input a dot signal from the pattern generator. Normalize the picture setting.
- (Moving horizontally), adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the center of screen.
- (Moving vertically), adjust the V.STAT magnet so that the vertical red, green and blue points coincide at the center of screen.

- ③ By rotating the V.STAT magnet clockwise, the red, green and blue dots move as shown below.



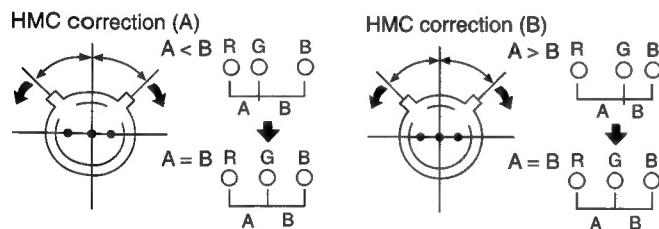
- ④ By opening or closing the V.STAT magnet, the red, green and blue dots move as shown below.



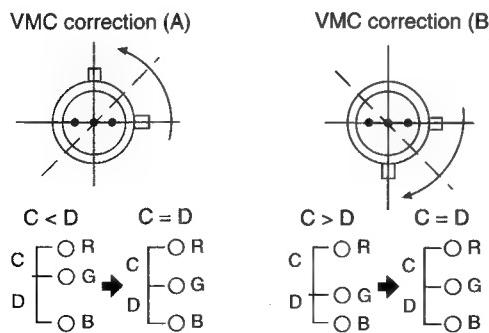
- If the blue dot does not coincide with the red and green points, correct the points by using the BMC (Hexapole) magnet.

- ⑤ Correction for HMC (horizontal mis-convergence) and VMC (vertical mis-convergence) by using the BMC (Hexapole) magnet.

- ① HMC correction by BMC (Hexapole) magnet and movement of the electronic beam.



- ② VMC correction by BMC (Hexapole) magnet and movement of the electronic beam.



Layout of each control

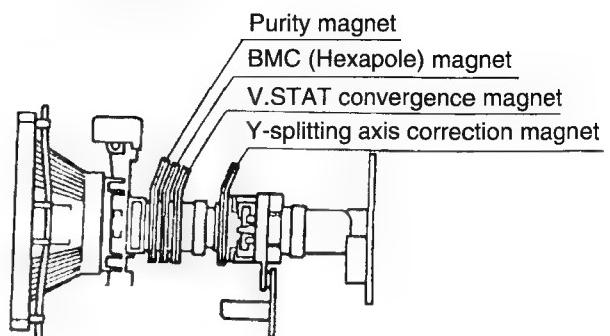
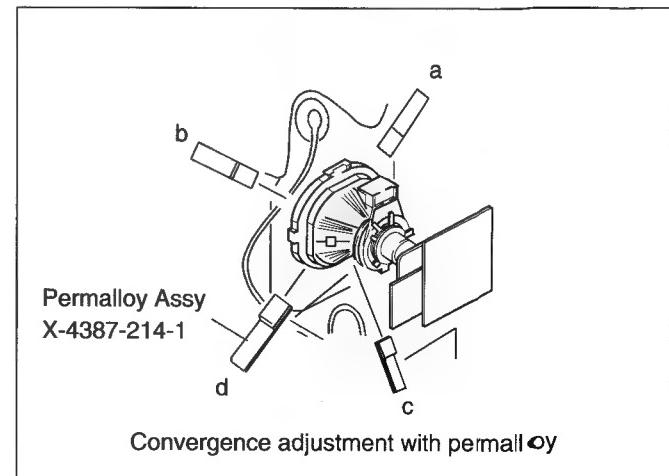
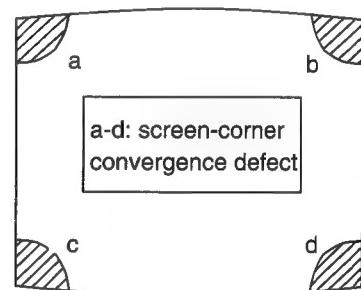


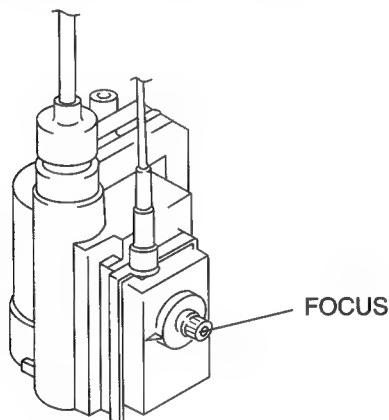
Fig.3-5

- If you are unable to adjust the corner convergence properly, correct them with the use of permalloys.



3-3. Focus

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control on the flyback transformer for the best focus at the center of the screen.
Bring only the center area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



CRT Driver CXA 1840

Crt Driver	CXA1840
21 R DRIVE	41
22 G DRIVE	adj
23 B DRIVE	adj
24 R CUT-OFF	8
25 R C	0
26 G CUT-OFF	adj
27 G C	0
28 B CUT-OFF	adj
29 B C	0
30 AFC MASK	0
31 DRIVE LVL	52
32 SUB BRT	32
33 H SWEEP SW	on
34 SKEW D	off
35 OUT DC	0

3-4. Screen (G2), White balance (Adjustment in the service mode with remote commander)

G2 adjustment (RV702)

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 170V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control RV701 [SCREEN] on the C board to the point just before the return lines disappear.

White balance adjustment

1. Receive an all-white signal.
2. Enter into the Service Mode by pressing ' TEST ', ' TEST ' and ' 01 ' on the Service Commander.
3. Select ' CRT Driver ' from the on screen menu display and press **OK**.
4. The 'CRT Driver CXA1840' menu will appear on screen.

5. Set picture to MAX.
6. Set the ' R DRIVE ' to 41.
7. Adjust the ' G DRIVE ' and ' B DRIVE ' with the **▲ ▼** buttons so that the white balance becomes optimum.
8. Press the **OK** button to write the data for each item.
9. Set picture to MIN.
10. Adjust ' R CUT-OFF ', ' G CUT-OFF ' and ' B CUT-OFF ' with the **▲ ▼** buttons so that the white balance becomes optimum.
11. Press the **OK** button to write the data for each item.

SECTION 4

CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-831.

HOW TO ENTER INTO SERVICE MODE

- Turn on the main power switch of the set while pressing the + (plus) and - (minus) buttons on the customer front panel.

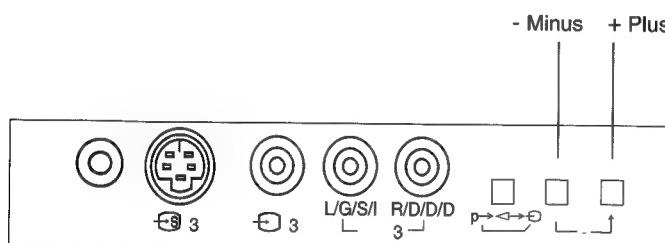


Fig. 4-1

- "TT" will appear on the upper right corner of the screen.

Command operation in service mode

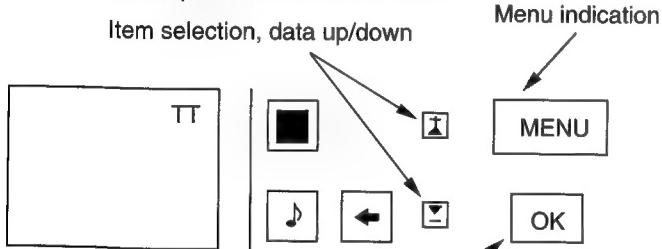
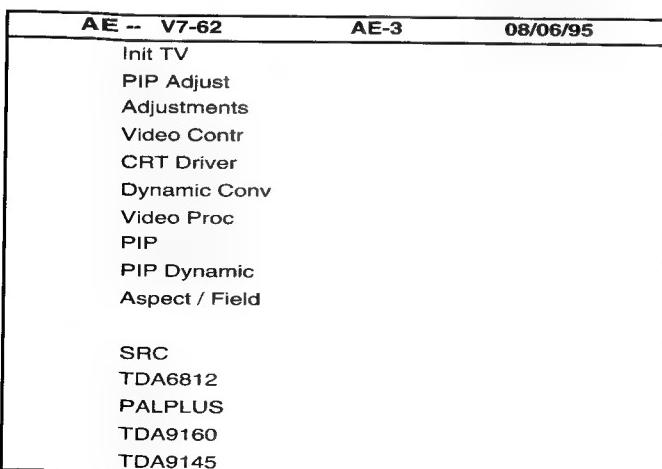


Fig. 4-2

Fig. 4-3 Selection completion,
data written-in

- Press "Test" "Test" and 01 on the commander to get the menu on screen.



- Press the and buttons on the remote commander to select the adjustment item.
- Press the OK button to proceed to the next menu.
- If the adjustment item is 'CRT Driver', press the button to move to 'CRT Driver'.
- The Menu as indicated in Fig 4-4 will appear on the screen.

CRT Driver	CXA1840
1 V POS	adj
2 V SIZE	adj
3 V LIN BAL	adj
4 V LIN	adj
5 V SCROLL	127
6 V ASP PAP	2
7 H POS	adj
8 H SIZE	adj
9 H PIN CUSH	adj
10 H TILT	adj
11 H UP COR	adj
12 H LOW COR	adj
13 AFC V BOW	adj
14 AFC V ANGLE	adj
15 V COMP	5

Fig. 4-4

- Press the button to move > to the adjustment item and press the OK button.
- Press the and buttons to change the data in order to comply with each standard.
- Press the OK button to write data into memory.
- Turn off the power to quit the service mode when adjustments have been completed.

CXA1839 (VIDEO CONT)

Item No	Adjustment item	Data Amount
1	SUB BRT	8
2	SUB COL1	8
3	SUB CONT1	8
4	PIC	53
5	HUE	31
6	COL	31
7	BRT	31
8	SHP	31
9	SUB HUE	7
10	D.COIL	off
11	SHP LIM	off
12	AGE WHT	off
13	R-Y/R	13
14	R-Y/B	15
15	G-Y/R	7
16	G-Y/B	5
17	RGB LEV2	8
18	SUB SHP	3
19	SUB FO	1
20	PRE/OVER	0
21	NR LEVEL	1
22	DC TRAN	0
23	DYN PIC	1
24	CEC LEVEL	2
25	VM LEVEL	2
26	ABL MODE	1
27	DYN ABL	off
28	Y SYM SW	off
29	AGE BLK	off

CXD2035 (ASPECT)

Item No	Adjustment item	Data Amount
1	COMPRESS	7
2	FRAME WID	5

CXD2030 (VIDEO PROCESSOR)

Item No	Adjustment item	Data Amount
1	DNR	on
2	DNR VALUE	5
3	TA SYN CLP	16
4	TB BGP	50
5	TD CLP	25
6	FOTO CD SW	off
7	BLK PORCH	16
8	NT TD BGP	25
9	PAL TD BGP	25
10	N.SECAM TB	50
11	SECAM TB	50
12	358 NR LVL	3
13	443 NR LVL	5

CXD2033D (PIP DYNAMIC)

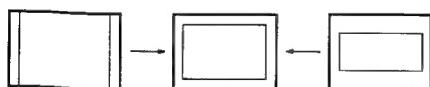
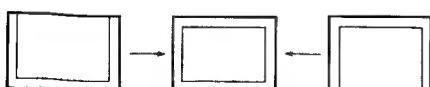
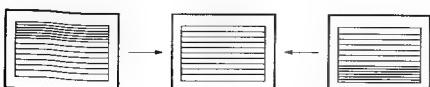
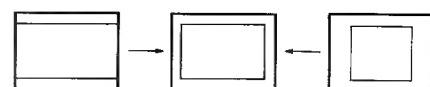
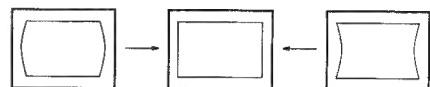
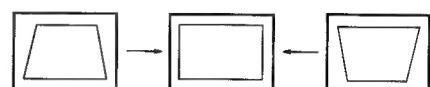
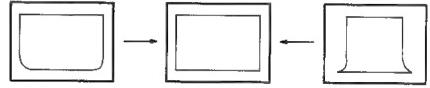
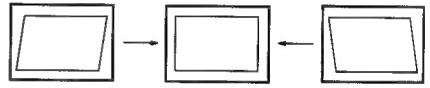
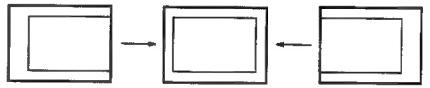
Item No	Adjustment item	Data Amount
1	443DSP BGP	19
2	358DSP BGP	38
3	SE DSP BGP	19
4	443 LRD H	39
5	358 LRD H	41
6	443MN MPWH	213
7	358MN MPWH	174
8	443 ACC R.	52
9	358 ACC R.	42
10	443MN R RD	39
11	358MN R RD	27
12	FRAME PIP	10
13	FRAME MPX	3

Typical Value (OSD based) when receiving PAL Philips pattern.

DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the service mode and select 'CRT Driver'. The 'CRT Driver CXA1840' adjustment menu will be displayed.
2. Select and adjust each item in order to get an optimum image.

Item No	Adjustment item	Data Amount
1	V POS	adj
2	V SIZE	adj
3	V LIN BAL	adj
4	V LIN	adj
5	V SCROLL	127
6	V ASP PAP	2
7	H POS	adj
8	H SIZE	adj
9	H PIN CUSH	adj
10	H TILT	adj
11	H UP COR	adj
12	H LOW COR	adj
13	AFC V BOW	adj
14	AFC V ANGLE	adj
15	V COMP	5
16	H COMP	0
17	WV CENT RF	144
18	WV AREA RF	36
19	W CENT VCR	160
20	W AREA VCR	20

V SIZE**V POS****V LIN****H SIZE****H PIN CUSH****H TILT****H UP COR****H LOWER COR****AFC V BOW****AFC V ANGLE****H POS**

3. Press **OK** button to write the data.

If the menu display prevents viewing the screen while carrying out the adjustments, it can be removed by pressing **OK** on the remote commander. Pressing **OK** once again will restore the menu on screen.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

AGC Adjustment (IF Block)



- IF Block top side -

Fig. 4-5

1. Receive an off-air signal.
2. Adjust the AGC VR so that there is no snow noise and cross-modulation visible on the screen.
3. Change the receiving channel and confirm status.

Sub Brightness Adjustment

1. Input a Phillips pattern.
2. Select 'RESET' from the menu to normalize the set.
3. Set the CONTRAST to minimum.
4. Press "Test" "Test" and 01 on the remote commander.
5. Adjust the BRIGHTNESS with the +/- buttons on the remote commander after selection of 'Sub Bright' so that the 0 IRE section of the gray scale is completely cut off and the 20 IRE section is only just visible on the screen.
6. Press 'MENU' and '0' twice to release Test mode 2.
7. Select 'RESET' from the menu to normalize the set.

Picture Rotation Adjustment

1. Input a PAL color bar signal.
2. Press the **MENU** button on the commander to get the menu on screen.
3. Press the **▲** and **▼** buttons of the commander and move > to PRESET/TIMER followed by INSTALLATION and PICTURE ROTATION.

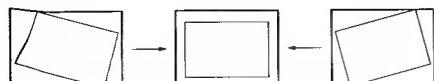
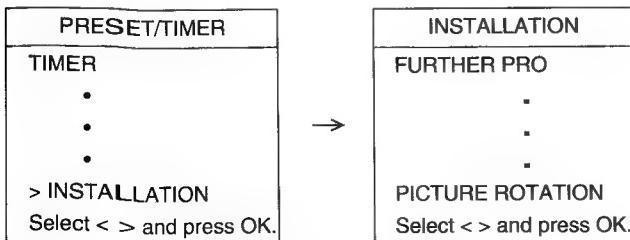


Fig. 4-6

4-3. TEST MODE 2:

Is available by pressing the Test button twice, OSD "TT" appears. The functions described below are available by pressing the two numbers. To release Test Mode 2, press 0, 10, 20 ... twice or switch the TV into Standby Mode. Pressing the two Local Control buttons (+ and -) during Power ON will also switch into "TT" mode.

In TT mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear . The Function is kept even when the menu is not displayed!!

00	Switch back to normal mode - TT mode off	16	Save actual Last Power Memory data at Reset Data location)The previous Reset data is overwritten)
01	Switch service menu on	15/16	With these two functions, it is possible to preset user defined Reset values (just TT16) or to preset factory defined Reset values (first TT15 then TT16)
02	Direct access to Noise reduction	17	This function presets the Labels for the AV sources: AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4.
03	Set Volume to 30%	18	Text possible On/Off selection of Text (toggle function)
04	Service Menu in "Service Mode"	19	Direct access to Stereo Separation With cursor Up/Down the Stereo separation can be adjusted (w/o OSD, Menu display)
05	Service Menu in "Production Mode"	20	see TT10
06	Set Volume to 80%	21	Picture Rotation automatic function : (-4) -> (+4) -> 0
07	Aging mode	22	Operating Timer and Error Monitor display
08	Shipping condition (Production request) To ensure that all TV sets leave the Production with the same presettings. Programme 1 is selected, AV IN is set to AV1, AV Out is set to TV Out, Volume and HP Volume is set to 35%, Resolution is set to high, Format is set to 4:3, Pip is set to Top Left position, Pip is switched off, TT mode is switched off, all analogue values are set to the reset setting, space Sound - Equalizer - Loudness = off, DNR off, Dig. Mode = 1, Wide Zoom Mode for 28W models, Menu Language Reset, Prog. Pointer table reset Non Interlace is allowed in Text mode.	23	Direct access to Sub Brightness Adjustment With cursor Up/Down the Sub BRT can be adjusted (w/o OSD, Menu display)
09	Language reset. With this function the "Language Byte" in the NVM (Bank 0AAH Address 0DCH) is erased (set to 0FFH). The Language Menu appears now automatically when the TV set is switched ON as long as no new language is selected.	24	Direct access to Sub Color. With Cursor Up/Down the Sub Color can be adjusted.
10	The TT number will be deleted. All numbers with 0 (10, 20, 30, 40, 50, 60, 70, 80, 90) will reset the TT number. A new number can be selected. TT display is kept	25	Status menu display (SubController, CXA1840 Status, Main Controller.
11	Direct access to Balance. With Cursor Up/Down the Balance can be controlled (w/o OSD, Menu display)	26	Text Character selection (Char set 06 -> West Europe)
12	Direct access to Hue. With Cursor Up/Down the Hue can be controlled (w/o OSD, Menu display)	27	Text Character selection (Char set 38 -> East Europe)
13	Display of Software Version and TV set configuration	28	Text Character selection (Char set 40 -> West Europe) US English
14	Production Info Display	29	Text Character selection (Char set 55 -> West Europe) Turkish
15	Read factory setting from ROM (Program code) and store this data at Last Power Memory data location (The previous last power memory data is overwritten) AE3 has 3 packages of Analogue data: 1. Last Power memory data. This data is sent continuously to the corresponding IC's (TDA1839, SC, TDA6812) with this data the TV picture/sound appears. 2. Reset data. By pressing "Reset" in the menu this data is transferred from Reset Data location to the Last Power data location in the NVM. That means the Last Power Memory Data is overwritten by the Reset data last Power memory and Reset data is now the same. 3. Factory fixed data. Fixed data is held in the ROM code of the micro processor (ROM can't be changed)	30	see TT10
		31	Text Character selection Char set Russian
		32	Text Character selection Char set Greek
		33	Programme catching test (Programme catching can be released by "Menu command")
		34	Multi PIP adjustment. Direct access to 3.58 Horizontal write position. With Cursor Up/Down the 358 H write Pos can be adjusted (w/o OSD, Menu display).
		35	Multi PIP adjustment. Direct access to 4.43 Horizontal write position. With Cursor Up/Down the 443 H write Pos can be adjusted (w/o OSD, Menu display).
		36	Mtx Register 112 = intern display clock
		37	Mtx Register 112 = extern display clock

38	Automatic selection of Screen Modes: (not for S (4:3) Models. 4:3 -> Zoom -> Zoom up -> Zoom Center -> Zoom down -> Zoom Center -> smart -> (if Pal+ signal) PALPLUS -> wide.	61	Set Dolby default values.
39	Reset Programme Table (NVM Bank 0ACH) The sorting of programmes in "Programme Sorting Menu" is reset.	62	ACI disable.
40	see TT10	63	ACI enable.
41	no function	64	Reset all IIC Slave commands (Production use)
42	no function	65	Reset stored error codes in NVM.
43	no function	66	Reset for PALplus local controller and Sub Controller.
44	no function	67	Direct access to Headphone Volume. With cursor Up/Down the Headphone Volume can be controlled (w/o OSD, menu display) (Production use)
45	Set NVM to Protect mode (Bank 0AEH Adr. 0FFH write with 0)	68	ignore errors.
46	IR Channel Presetting Mode. The channel presetting can be done by a Special IR transmitter Sequence: TT46 -> -- PR Number select display appears Select Prog. No from where the channel shall be stored. --> Now TV is waiting for IR sequence <-- --> If no IR transmission starts TT46 is released after 20 secs <-- !Note: When TT46 is active, any transmission will be interpreted as PROG data !	69	reset ignore errors (show errors)
47	Direct access to Headphone Source Selection (Production use)	70	see TT10
48	Direct access to AGC Adjustment (PWM) output.	71	Picture Rotation Function On/Off toggle.
49	The EEPROM Testbyte is erased. After Power OFF -> ON the complete EEPROM data (except channel tables) is overwritten. EEPROM Protection byte is set to 0 protection mode	72	Dolby register setting menu.
50	see TT10	73	Megatext RGB textlevel one step decreased (max 3 steps down starting from E0h) (Production use)
51	Strobo mode is activated.	74	Megatext RGB textlevel one step decreased (max 1 steps down starting from E0h) (Production use)
52	no function.	75	reserved
53	Photo mode test (Photo mode can be released by "Menu command").	76	CXD 2030 Default data setting.
54	Direct access to Velocity Modulation VM (Production use)	77	CXD 2031 Default data setting
55	MTX Slicer Control "Low Pass" (only Sys L)	78	CXD 2032 Default data setting
56	MTX Slicer Control "No Compensation"	79	CXD 2033 Default data setting
57	Megatext Service Menu ON	80	see TT10
58	MTX Small Framing Code Window	81	CXD 2033D Default data setting
59	MTX Wide Framing Code Window	82	CXD 2035 Default data setting
60	see TT10	83	CXA 1526 Default data setting
		84	CXA 1839 Default data setting
		85	CXA 1840 Default data setting
		86	TDA 9145 Default data setting
		87	TDA 9160 Default data setting
		88	no function
		89	no function
		90	see TT10

4-4. ERROR MONITOR AND DETECTION

In the menu 'Error Monitor', information about the error status of the set is displayed.

- Actual operating time
- Last five errors which are stored in the NVM.
- Actual error.

Error Monitor	
Operating Time	000355 h 35min
Saved Errors	1. 40h=D1 Board 2.. 60h=Q Board 3. 70h=T Board 4. 00h=no error occurred 5. 00h=no error occurred
Actual Error	-> 00h=no error occurred
to reset the NVM press 'TT' 65	

Additionally the Error Reader can be connected to the service connector to read out the actual errors.

The device check itself is active while the TV set is running out of stand-by mode. The devices are checked by sending an I²C start sequence and if there is no acknowledgement back from the devices it is regarded as an error. Each device is checked three times and if at every attempt there is no reply from the relevant device an error is given. To read the error codes press 'TT' followed by 22 on the commander to view the Error Monitor menu.

To reset the error codes in the NVM press 'TT' followed by 65 on the remote commander.

TABLE OF ERROR CODES

Error Code	Device	Description	Board
000h	no device	no error has occurred	-
001h	IIC 1 and IIC 2	IIC 1 and IIC 2 blockaded	-
002h	IIC 1	IIC1 is blockaded	-
003h	IIC 2	IIC 2 is blockaded	-
010h	A Board	A Board is defective	-
020h	A1 Board	A1 Board is defective	-
030h	BX-Board (B,B1,B2)	B, B1, or B2 Board is defective	-
040h	D1 Board	D1 Board defect	-
050h	J Board	J Board defect	-

Error Code	Device	Description	Board
060h	Q Board	Q Board defect	-
070h	T Board	T Board defect	-
011h	CXP85332	No response from the Subcontroller	A
012h	ST24C16	No response from the NVM	A
013h	SDA5273	No response from the Megatext IC	A
014h	TDA6812	No response from the Sound Processor	A
015h	SAA7283	No response from the Nicam Decoder	A
016h	UV916H	No response from the Main Tuner	A
017h	CXA1839Q	No response from the Video Controller	A
018h	CXA1840	No response from the CRT Driver	A
019h	RGB8443	No response from RGB/YUV	A
021h	TDA6622	Audio processor of the Center and Surround channel in the case of Dolby Prologic does not respond.	A1
022h	TDA7317	No response from the Equalizer.	A1
031h	CXD2030R	No response from the Digital Video Processor.	B/B1
032h	CXD2031R	No response from the Twin Picture IC.	B1
033h	CXD2032R	No response from the Digital Sampling Rate Converter.	B/B1
034h	CXD2033R	No response from the Picture in Picture IC.	B
035h	CXD2035R	No response from the Aspect Converter.	B/B1
036h	TDA9160	No response from the Chroma Decoder.	B/B1
037h	TDA9145	No response from the Chroma Decoder (on French models only.)	B2
041h	CXA1526	No response from the Convergence IC.	D1
051h	CXA1855	No response from the AV-Switch	J
061h	83C65202	No response from the Local Controller.	Q
071h	UV1316/TSA5526	No response from the Subtuner.	T
072h	CXA1875	No response from the Port Expander.	T

4-5. LED Error Blinking

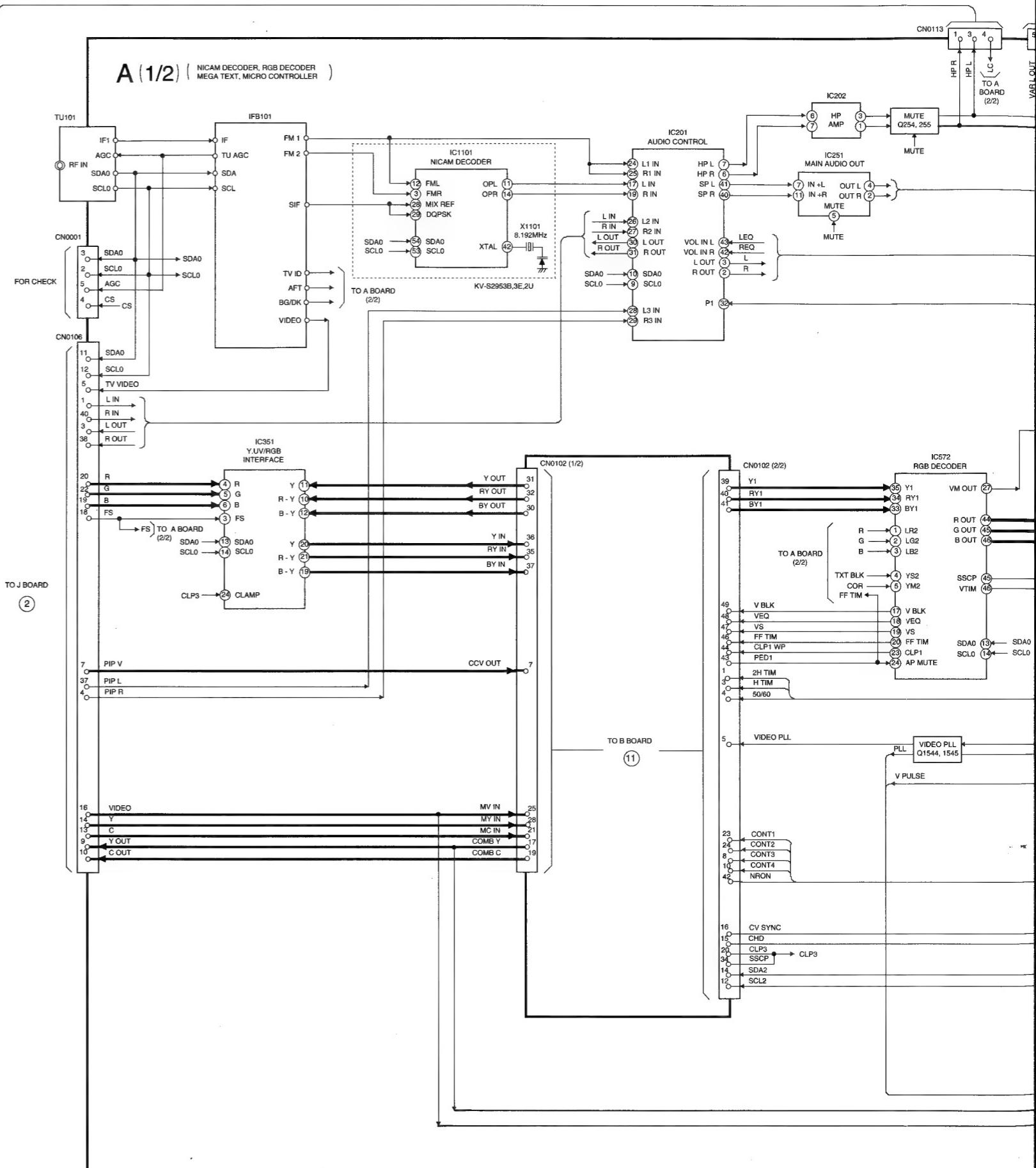
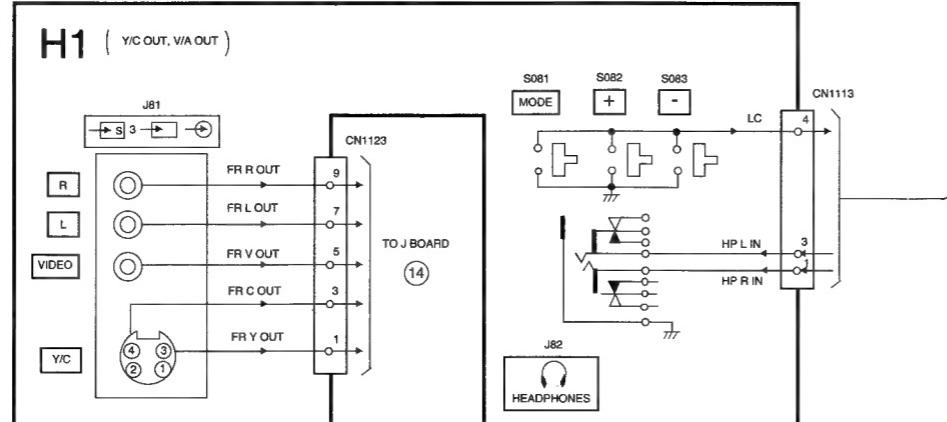
In addition to the Error Monitor facility there is an additional error indicator which indicates the most important errors also in the case of IIC error and Megatext error in opposition to the error monitor.

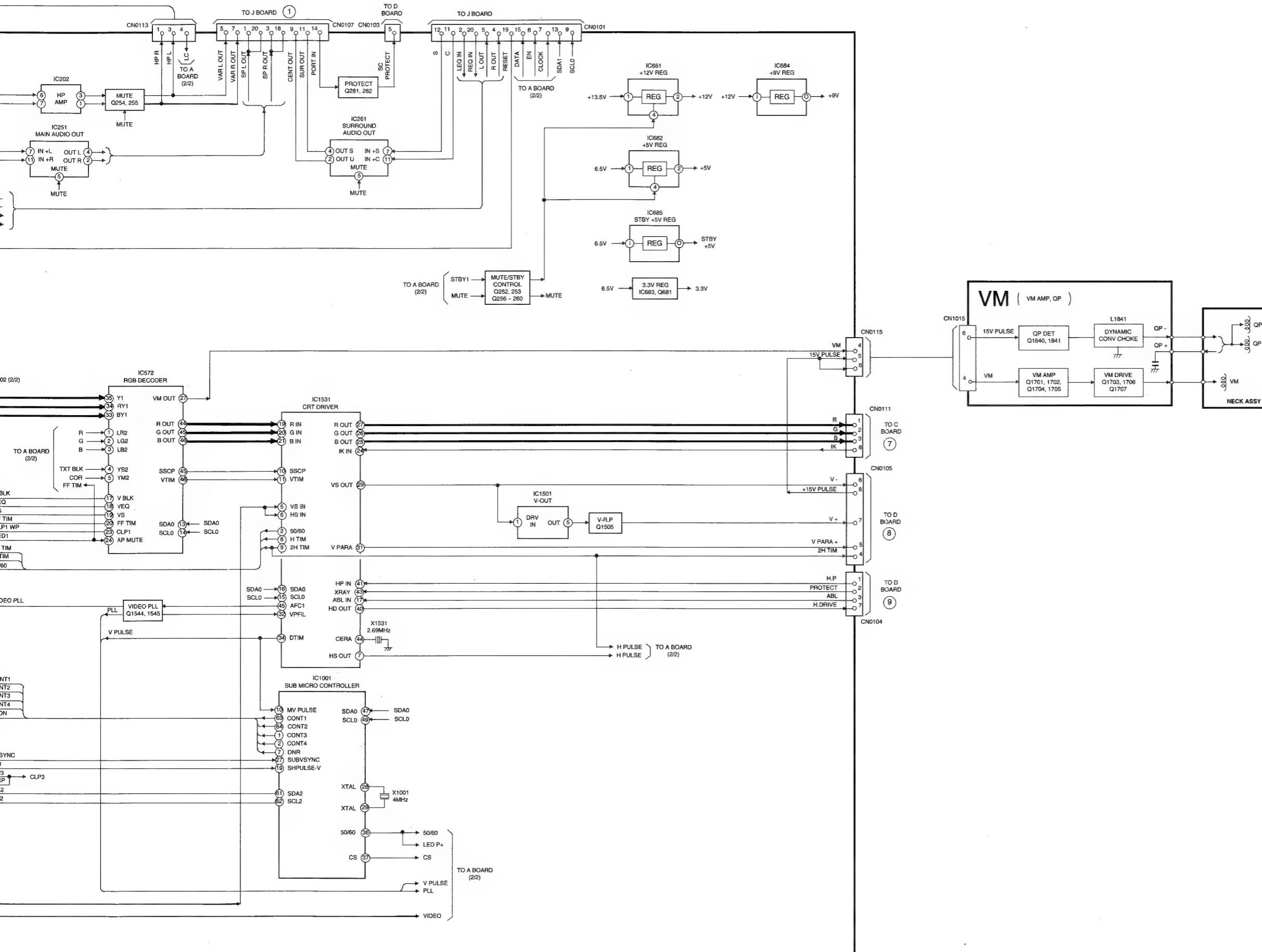
The error is recorded by counting the number of times that LED B blinks. This facility also works while in stand-by mode.

LED Error Code.

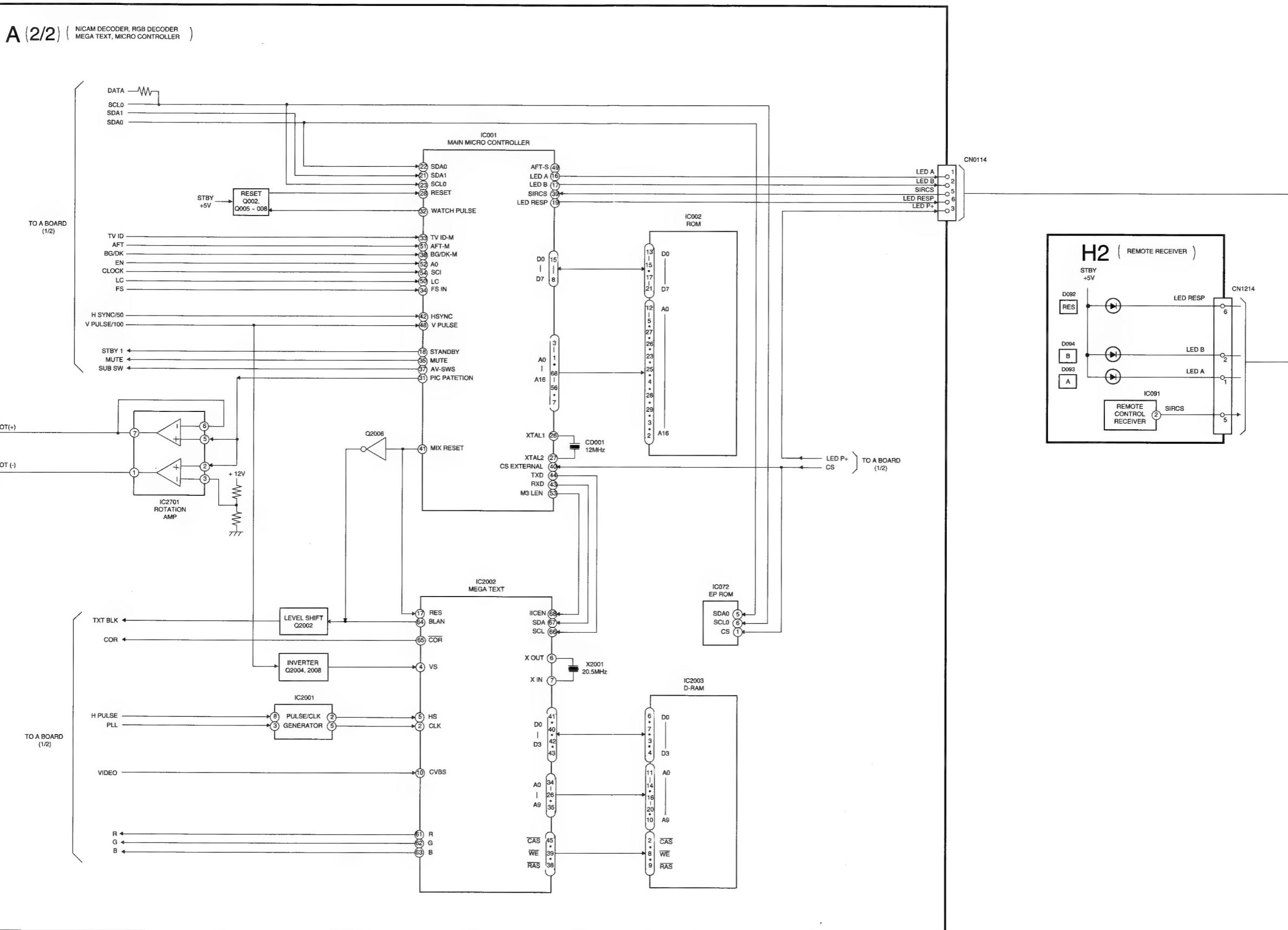
Error	number of LED B blinking	Description	Board
0	1	general IIC error	-
1	2	ST24C16 NVM error	A
2	3	CXP85332 subcontroller error	A
3	4	CXD2030R error of Digital Video Processor	B/B1
4	5	CXD2032R error of Digital Sampling Rate Converter	B/B1
5	6	CXD2035R error of Aspect Converter	B/B1
6	7	TDA1839 error of Video Controller	A
7	8	TDA1840 error of CRT Driver	A
8	9	CXA1855 error of AV switch	J
9	11	SDA5273 error of Megatext	A
10	12	TDA6812 error of Sound Processor	A
11	16	V-Protection (In this case the TV set is switched off immediately)	-

5-1. BLOCK DIAGRAM (1)

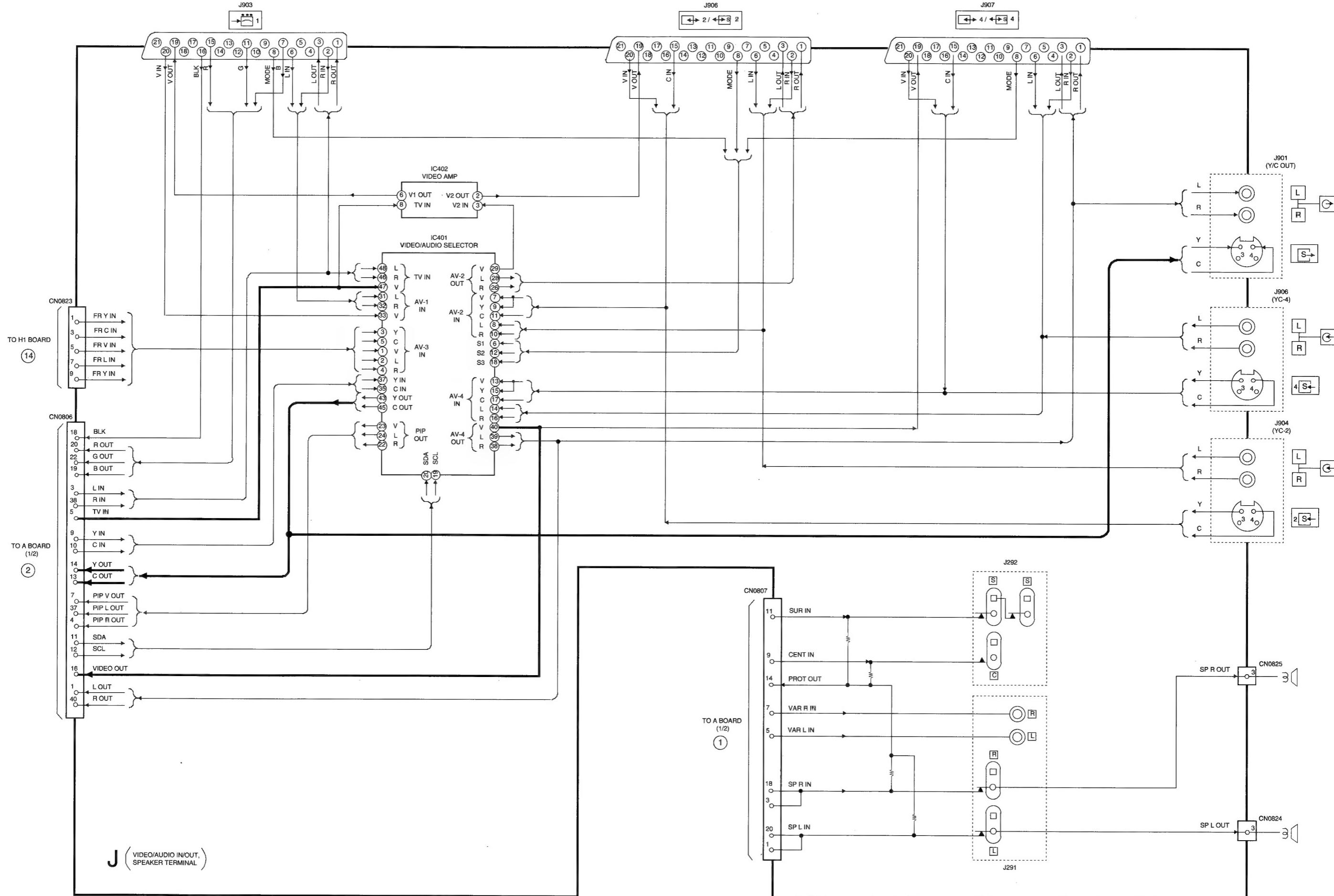




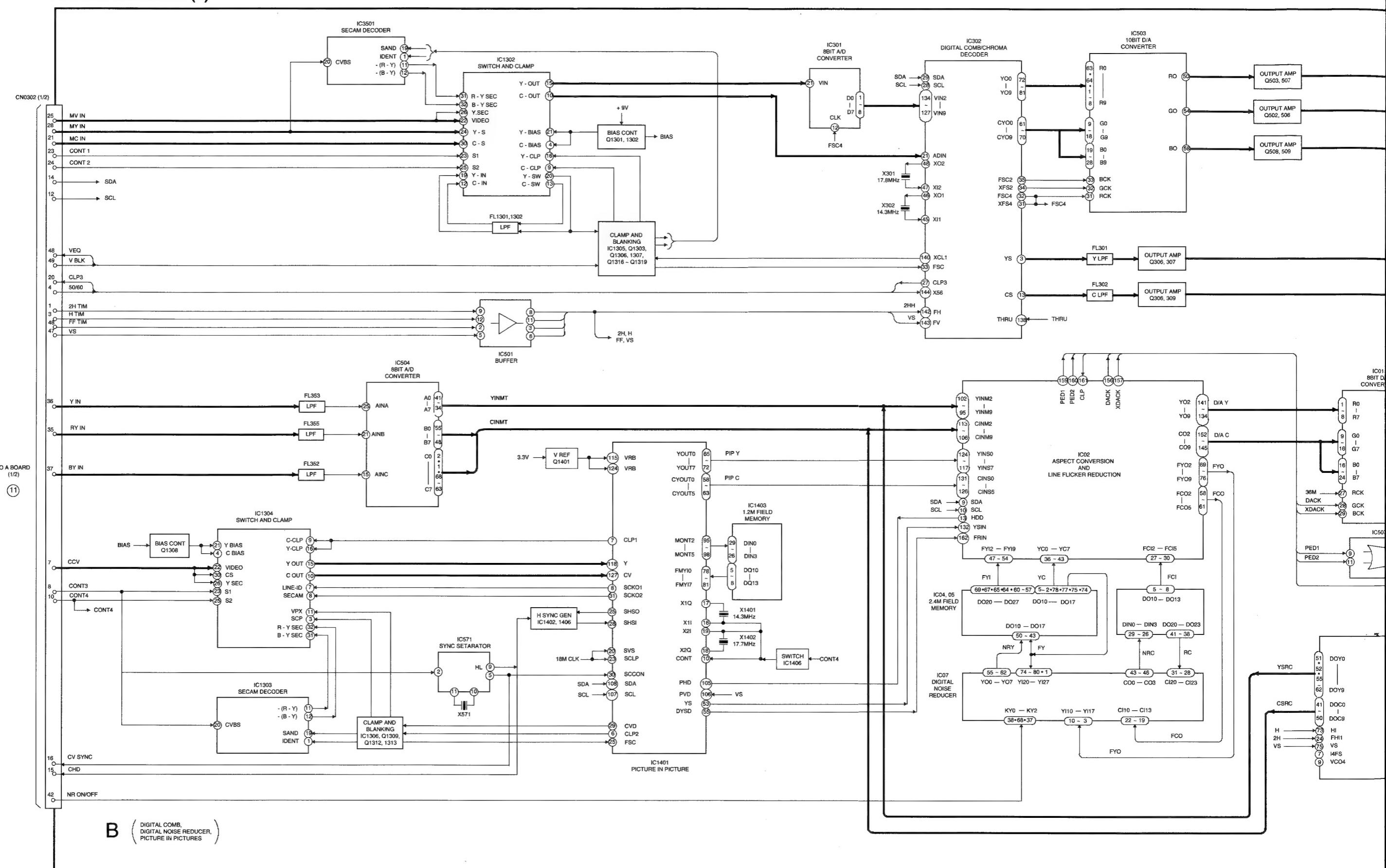
BLOCK DIAGRAM (2)

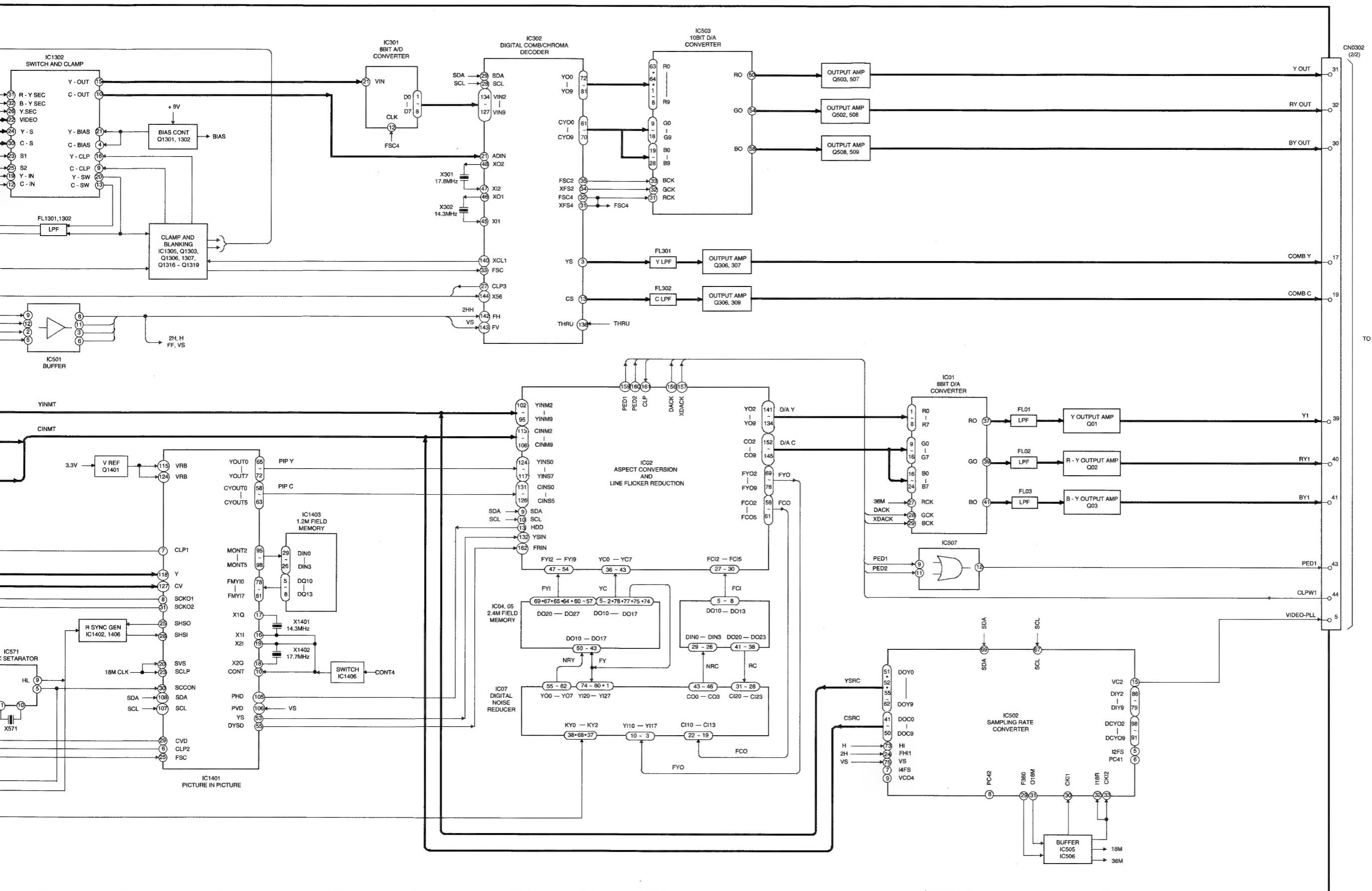


BLOCK DIAGRAM (3)

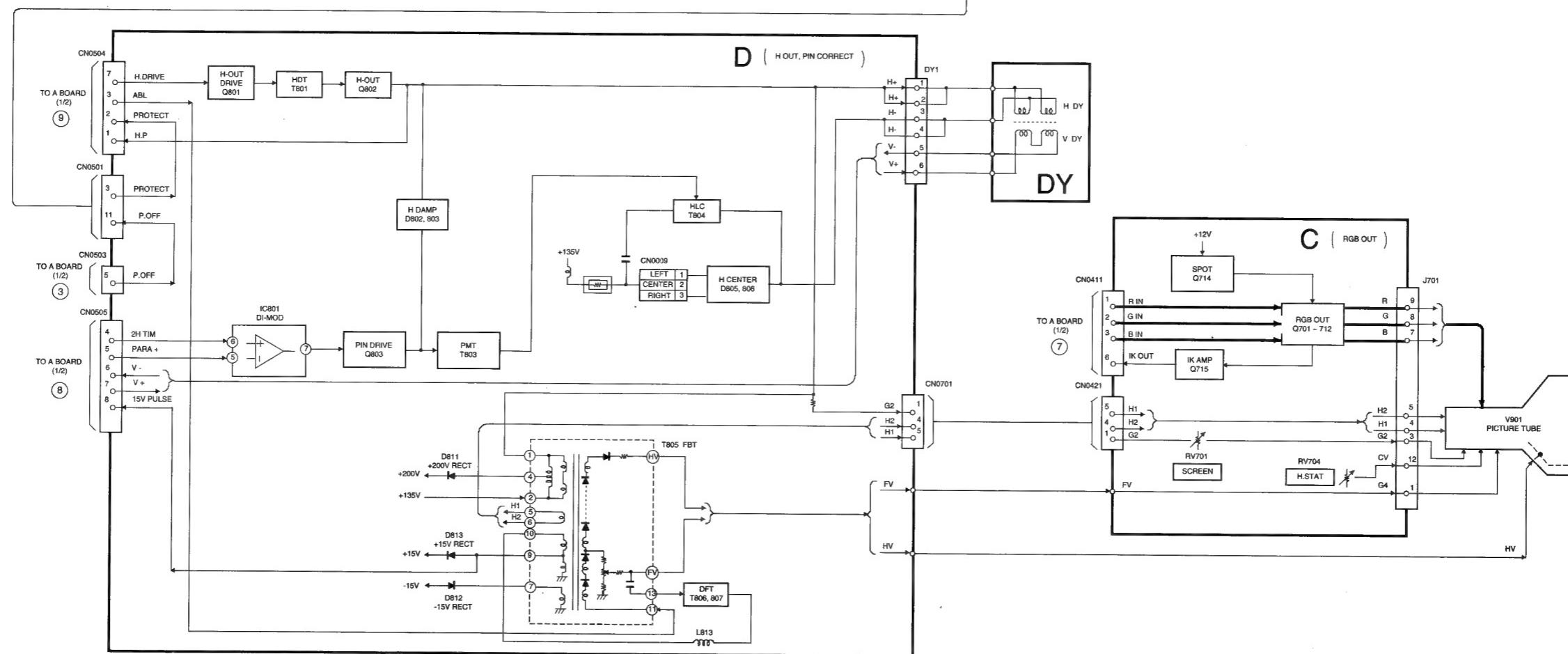
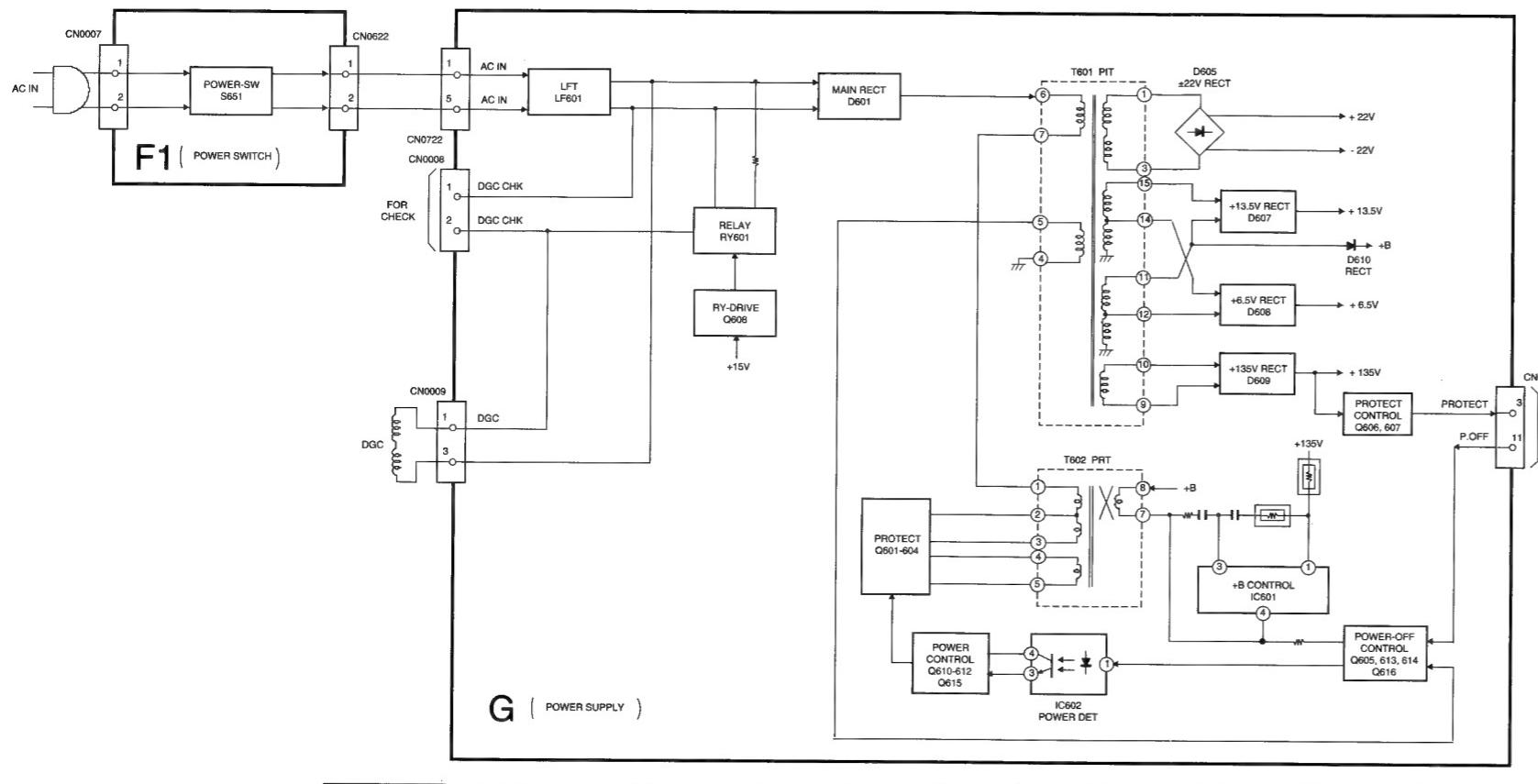


BLOCK DIAGRAM (4)

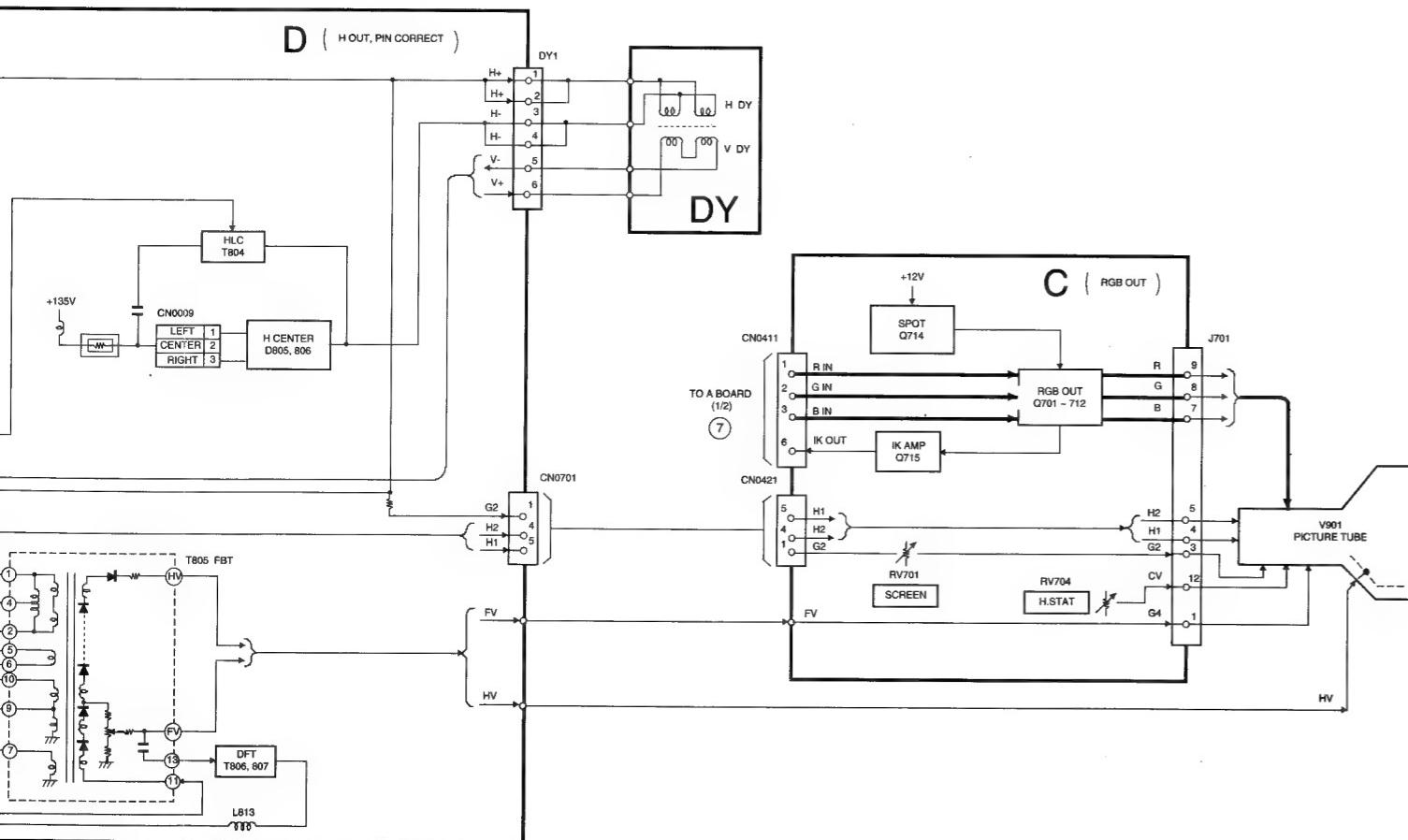
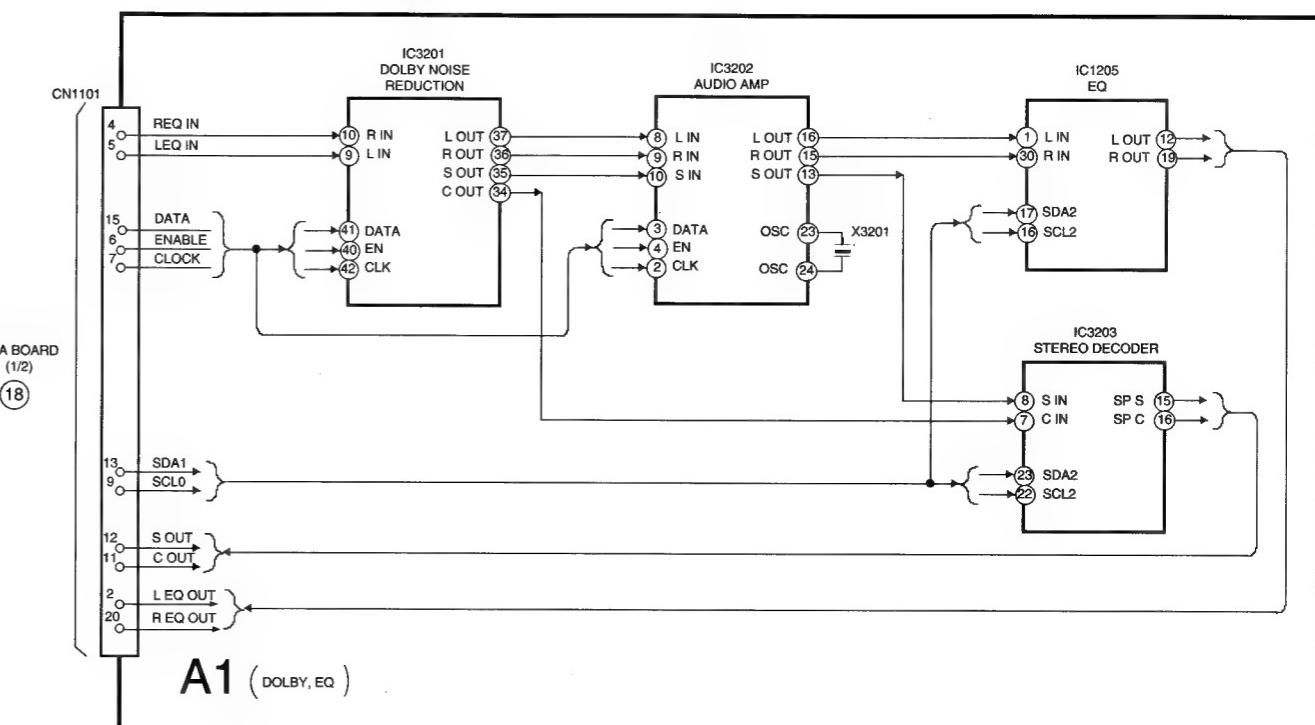




BLOCK DIAGRAM (5)

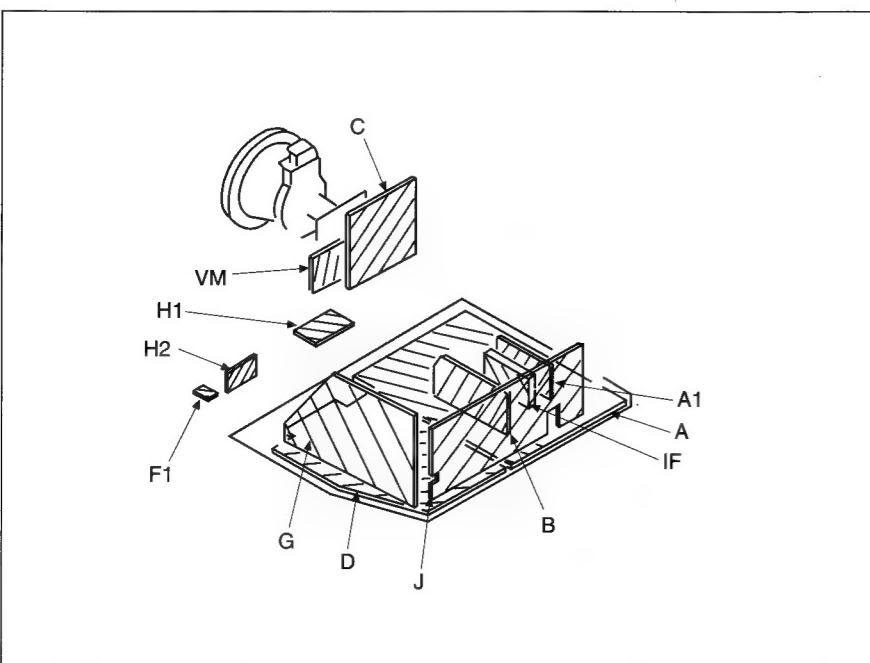


BLOCK DIAGRAM (6)



1 2 3 4 5 6

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{K}\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power $\frac{1}{4} \text{ W}$

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth - ground.
- : earth - chassis.
- : no mounted.

Note : The components identified by shading and marked are critical for safety. Replace only with the part number specified.

Note : Les composants identifiés par une trame et une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: X	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with $10\text{M}\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

A

B

C

D

E

F

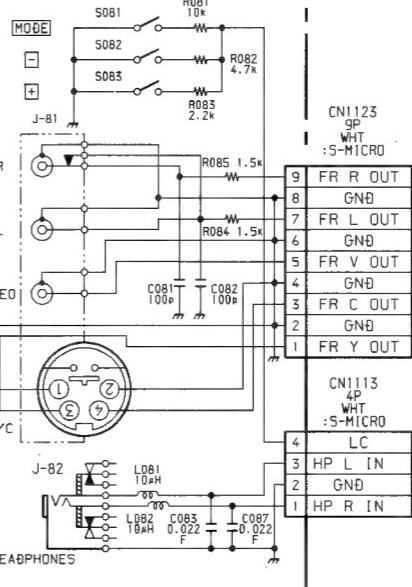
G

H

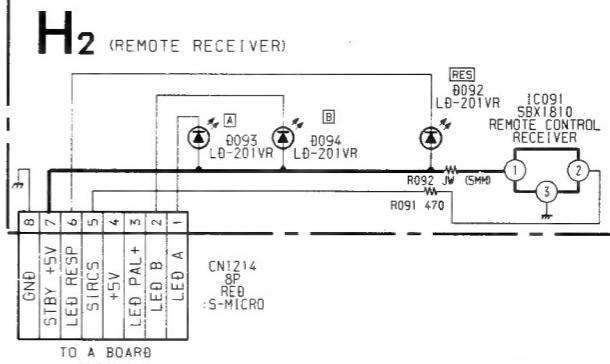
I

J

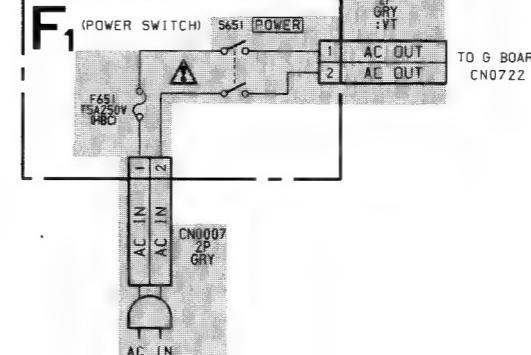
B-#SSAE3.<...>-H1.-28WS3

H1 (Y/C OUT, V/A OUT)TO J BOARD
CN0823TO A BOARD
CN0113

B-#SSAE3.<...>-H2.-S295

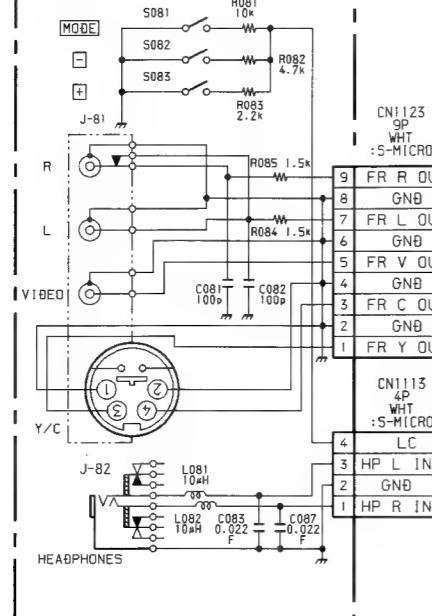
TO A BOARD
CN0114

B-#SSAE3.<...>-F1.-28WS3

CN0622
2P
GRY
:YTTO G BOARD
CN0722

1 2 3 4 5 6

B-#SSAE3.<...>H1.-28WS3

H1 (Y/C OUT, V/A OUT)**H1**

[Y/C OUT, V/A OUT]

H2

[REMOTE RECEIVER]

F1

[POWER SWITCH]

VM

[VM AMP, QP]

A

B

C

D

E

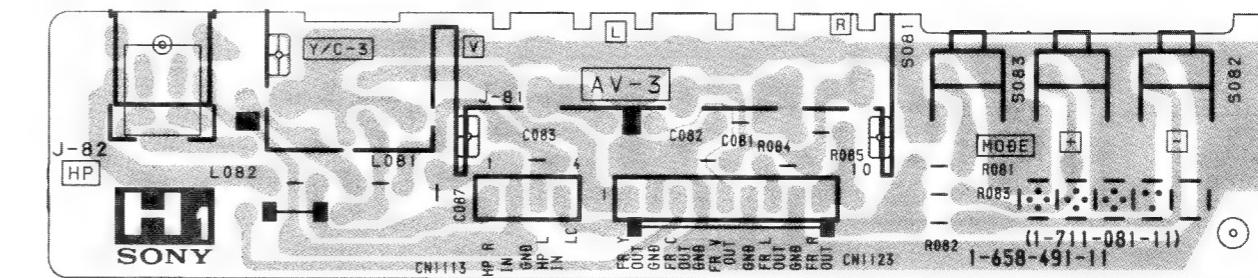
F

G

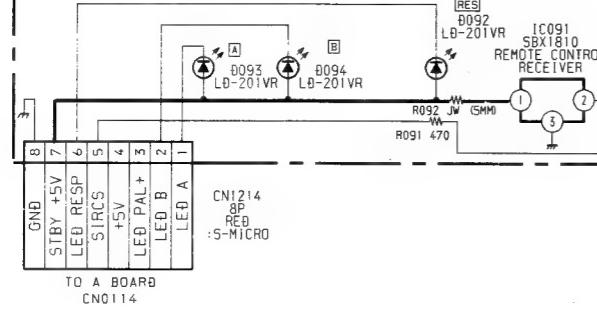
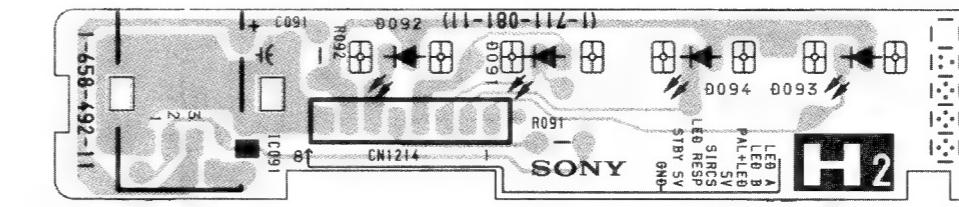
H

I

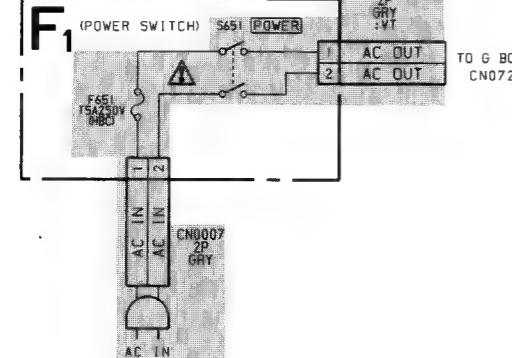
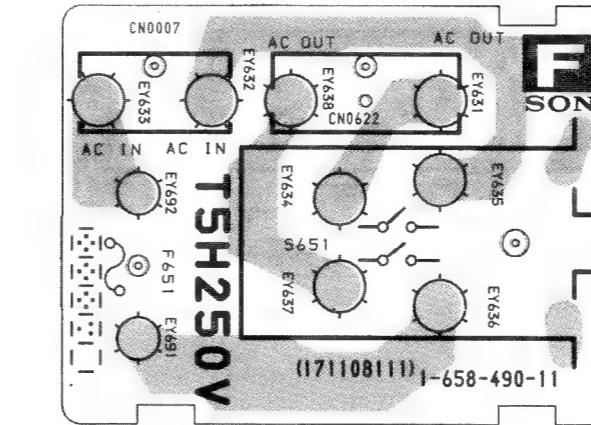
J

— H1 Board —

B-#SSAE3.<...>H2.-S295

H2 (REMOTE RECEIVER)**— H2 Board —**

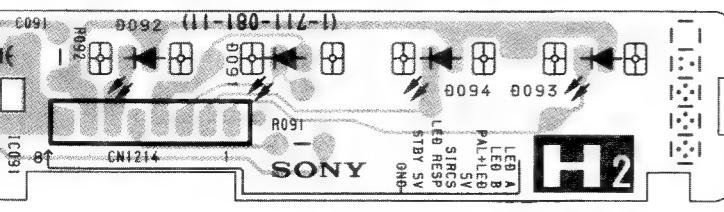
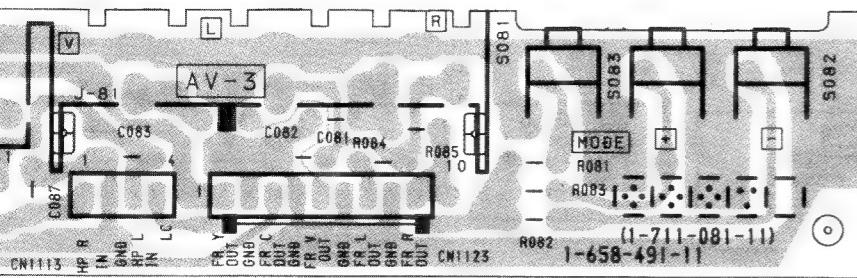
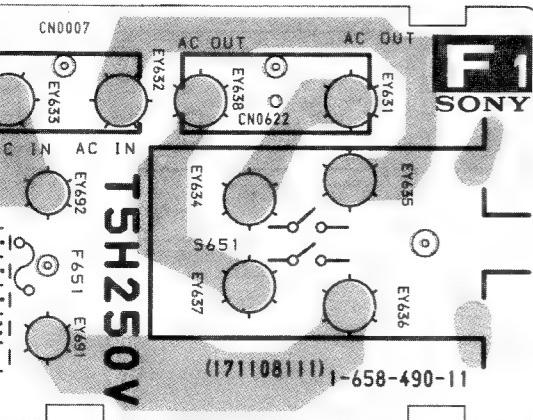
B-#SSAE3.<...>F1.-28WS3

**— F1 Board —**

[REMOTE RECEIVER]

F1**VM**

[POWER SWITCH] [VM AMP, QP]

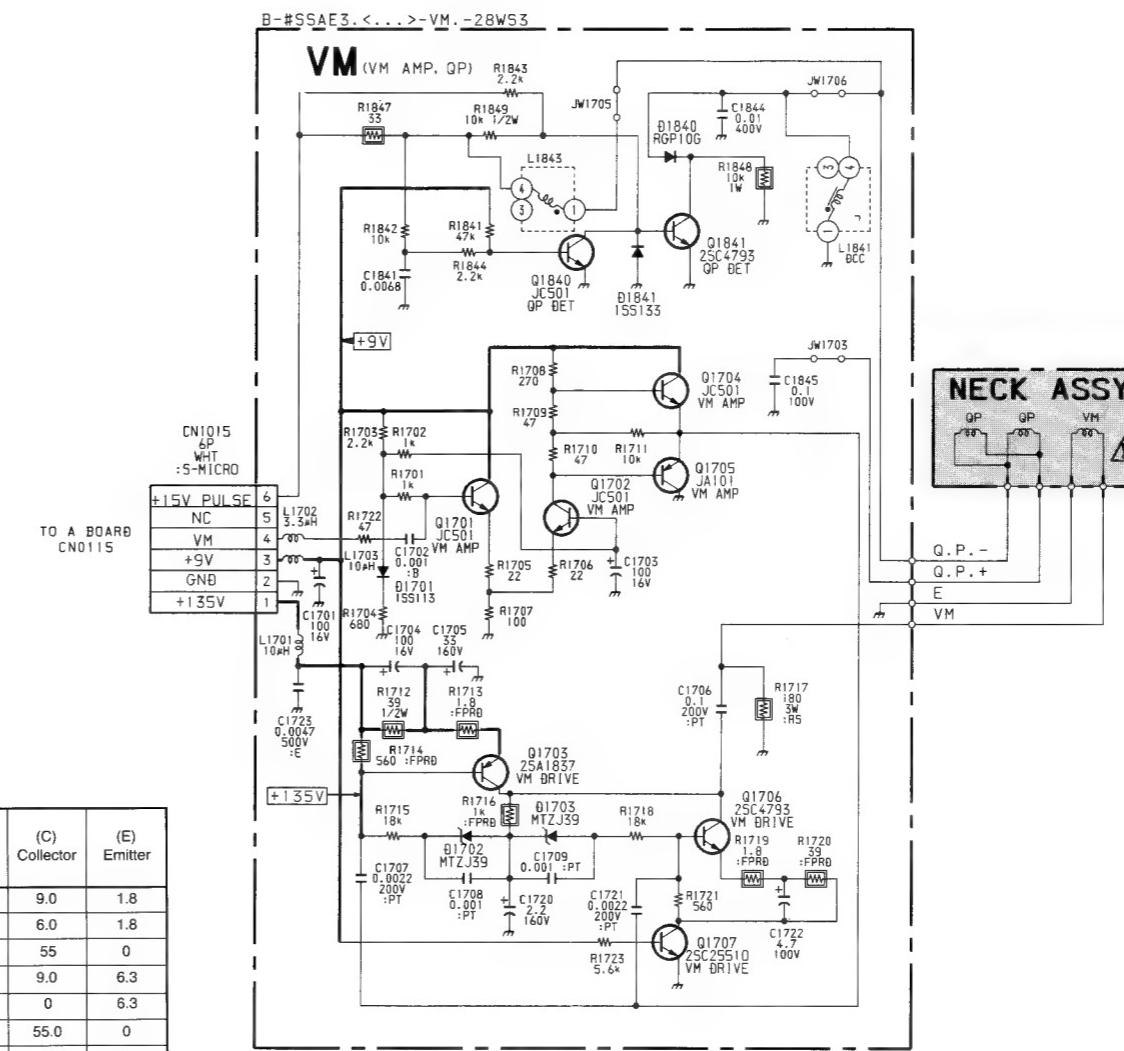
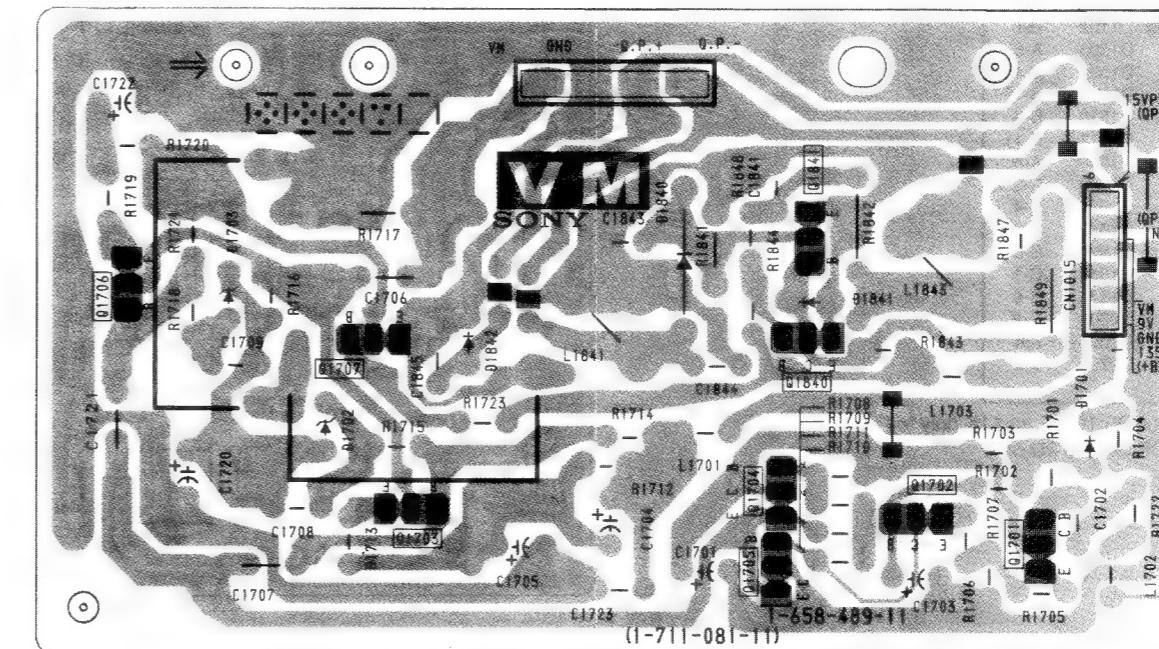
**F1 Board —**

2

[REMOTE RECEIVER]

VM

[POWER SWITCH] [VM AMP, QP]

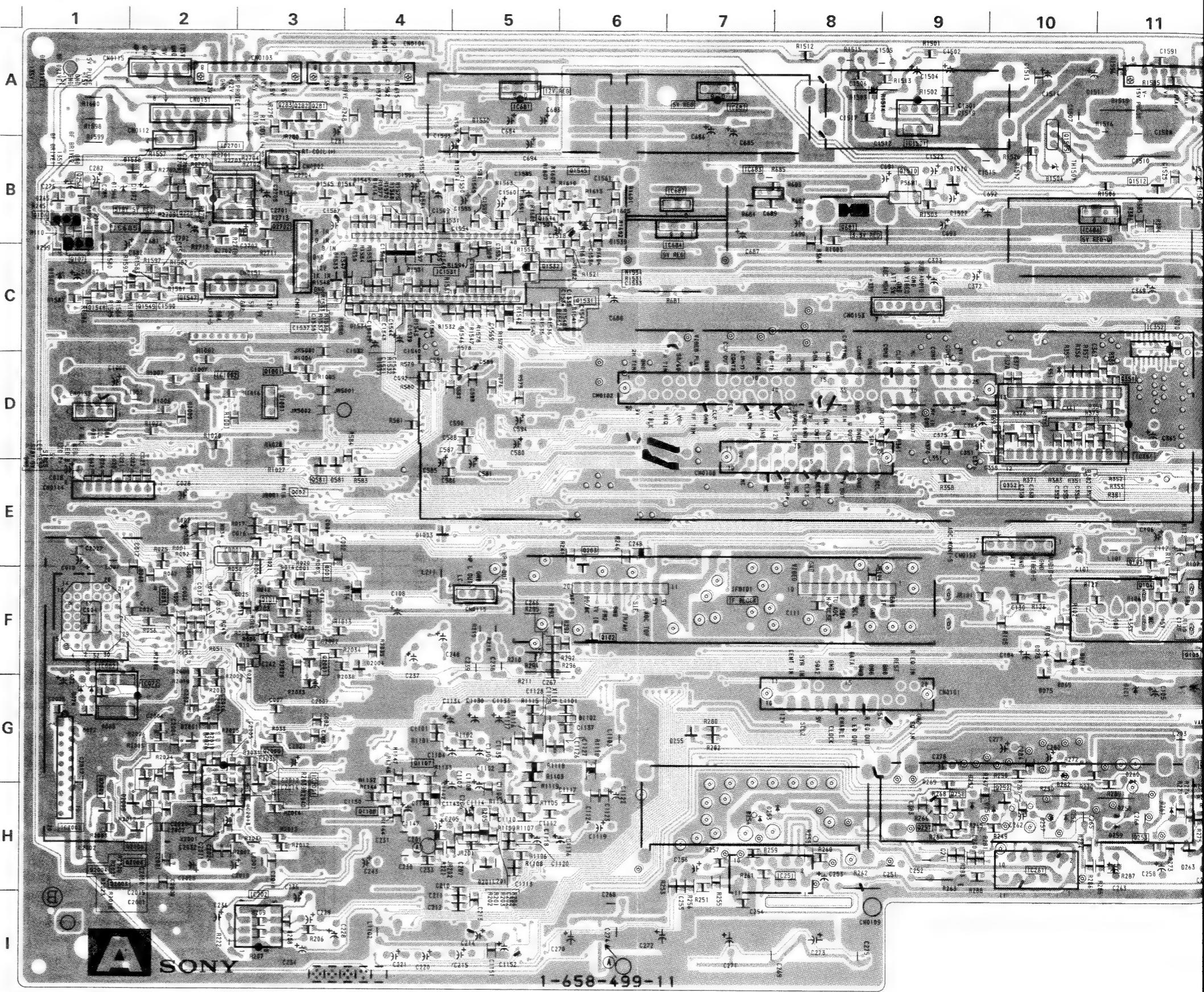
**— VM Board —**

A [RGB DECODER, CRT DRIVER, NICAM DECODER,
MEGA TEXT, MICRO CONTROLLER]

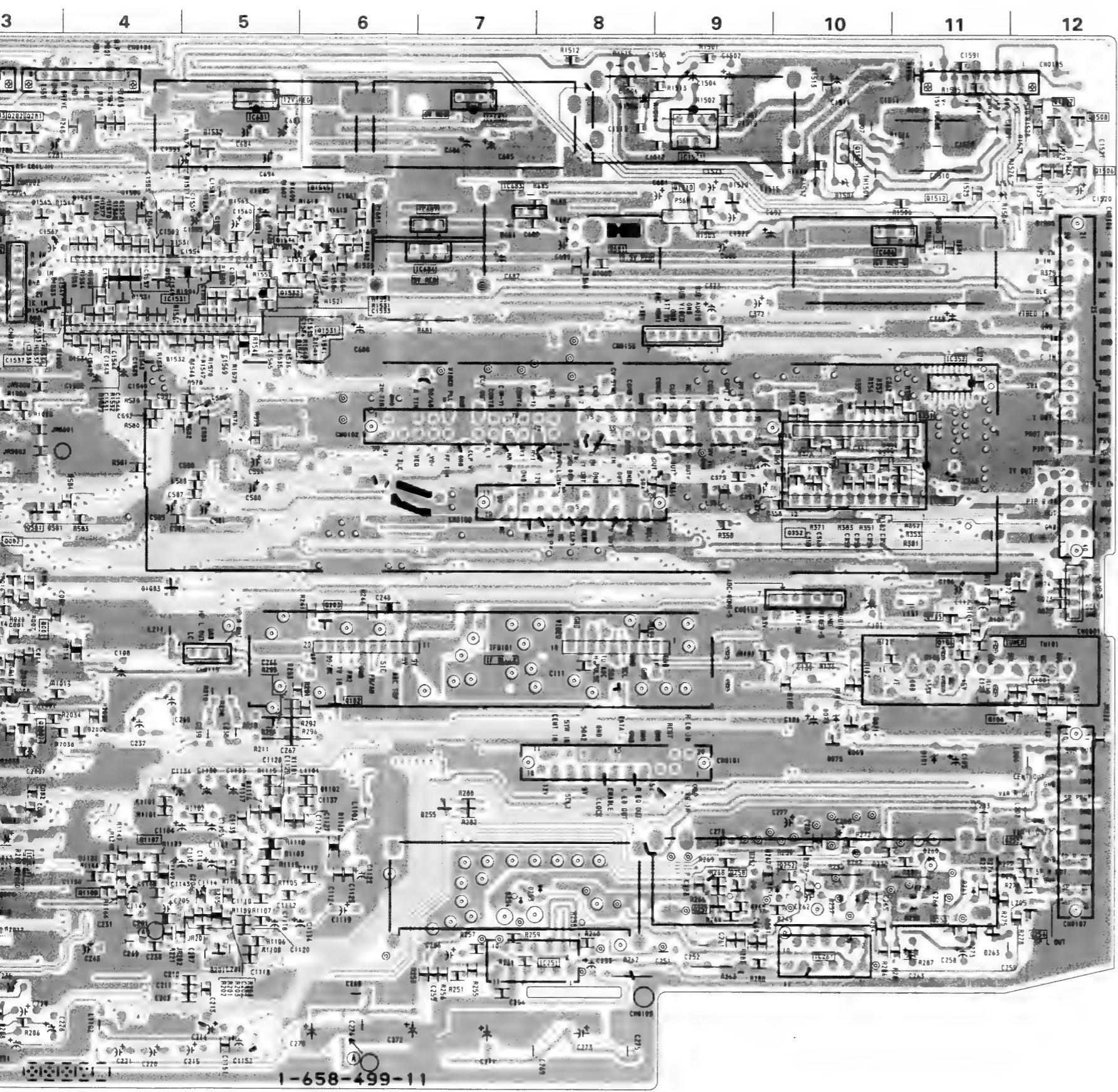
A BOARD

IC	
IC001	F-23
IC002	F-1
IC072	F-2
IC201	H-21
IC202	H-3
IC251	H-8
IC261	H-10
IC351	D-11
IC572	D-20
IC681	A-5
IC682	A-7
IC683	B-7
IC684	B-7
IC685	B-1
IC1001	D-23
IC1101	H-19
IC1501	A-9
IC1531	C-4
IC2001	G-3
IC2002	G-24
IC2003	H-1
IC2701	B-2
DIODE	
D001	E-3
D003	E-23
D068	F-5
D069	F-10
D071	F-10
D073	F-10
D075	F-10
D077	G-1
D078	G-1
D079	F-1
D101	F-11
D201	H-5
D251	H-9
D252	G-9
D253	H-7
D254	H-7
D255	G-7
D256	H-10
D257	H-10
D258	H-11
D259	H-11
D260	G-11
D261	H-11
D262	G-10
D263	H-11
D264	F-5
D351	D-10
D581	F-5
D1001	F-5
D1002	D-23
D1003	E-4
● D1101	G-19
● D1102	G-6
D1503	A-8
D1504	B-10
Q281	A-3
Q282	A-3
Q351	D-11
Q352	E-10
Q371	G-3
Q381	G-3
Q681	B-8
Q1001	D-3
● Q1105	H-20
● Q1106	I-20
● Q1107	G-4
● Q1108	H-4
Q1505	B-10
Q1506	B-12
Q1507	A-12
Q1508	A-12
Q1510	B-9
Q1511	B-14
Q1512	B-11
Q1531	C-6

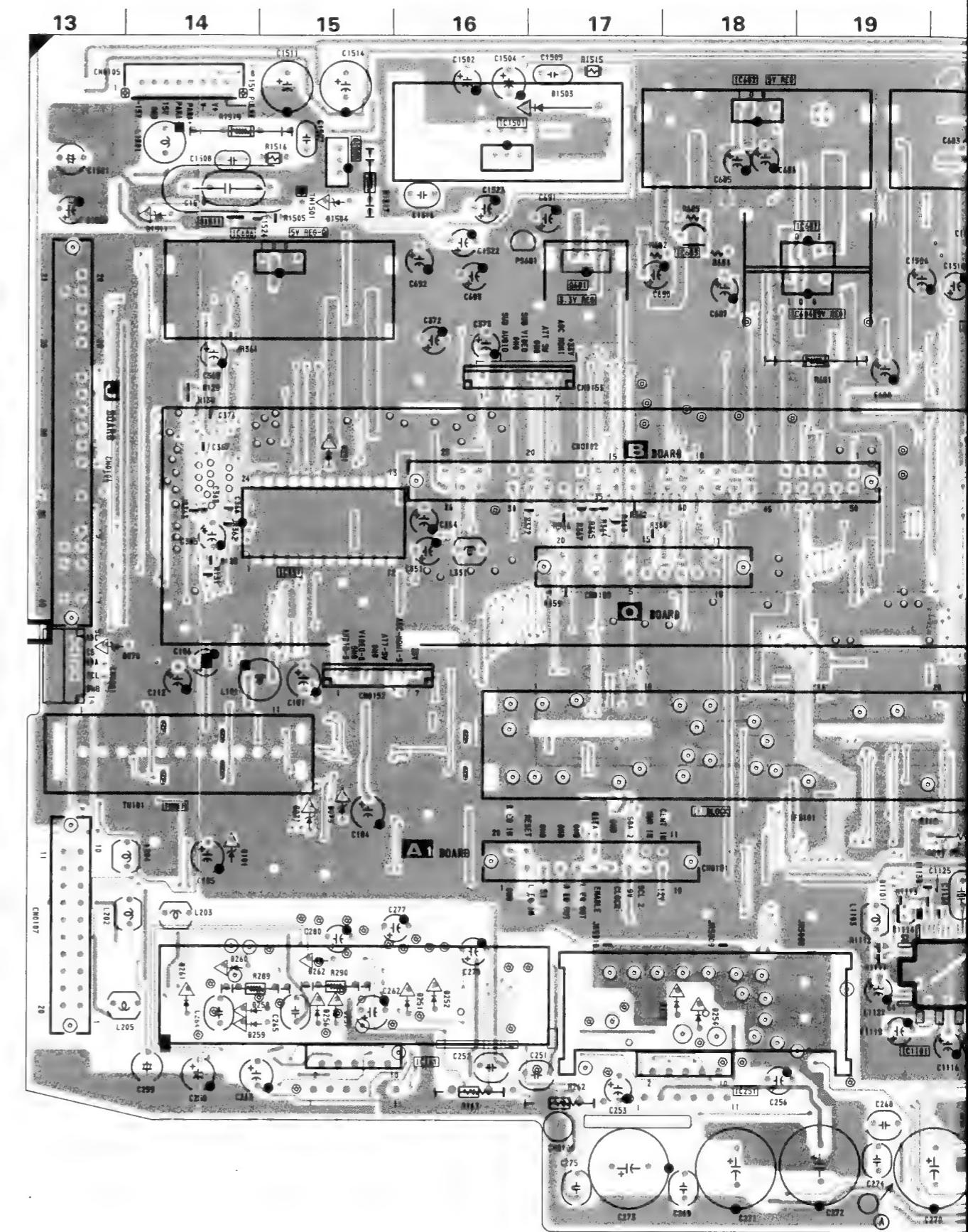
- mark : KV-S2951A,3B,1D,3E and 1K only
- mark : KV-S2953B,3E and 2U only

— A Board — <Conductor Side>

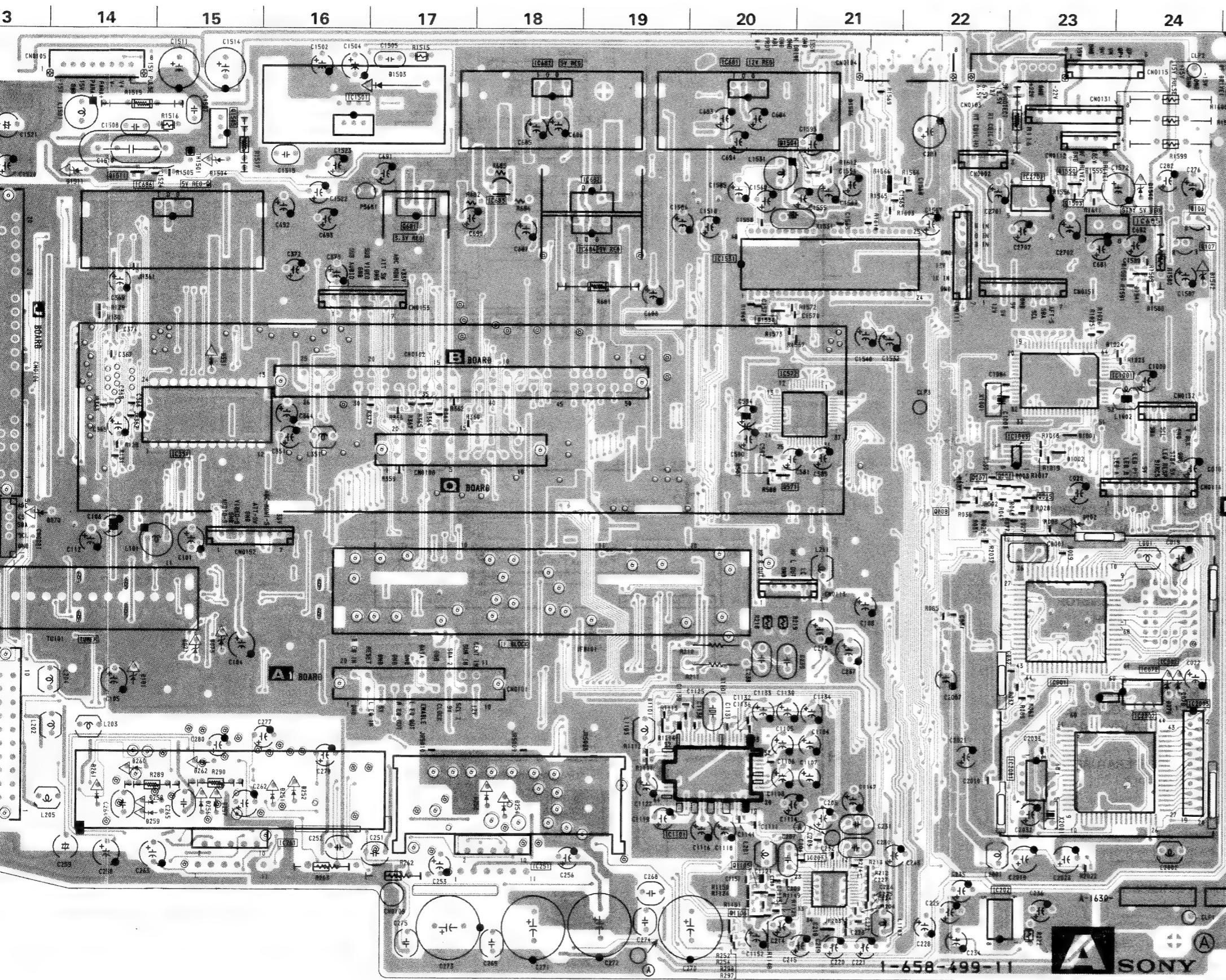
DECODER,]



— A Board — <Component Side>

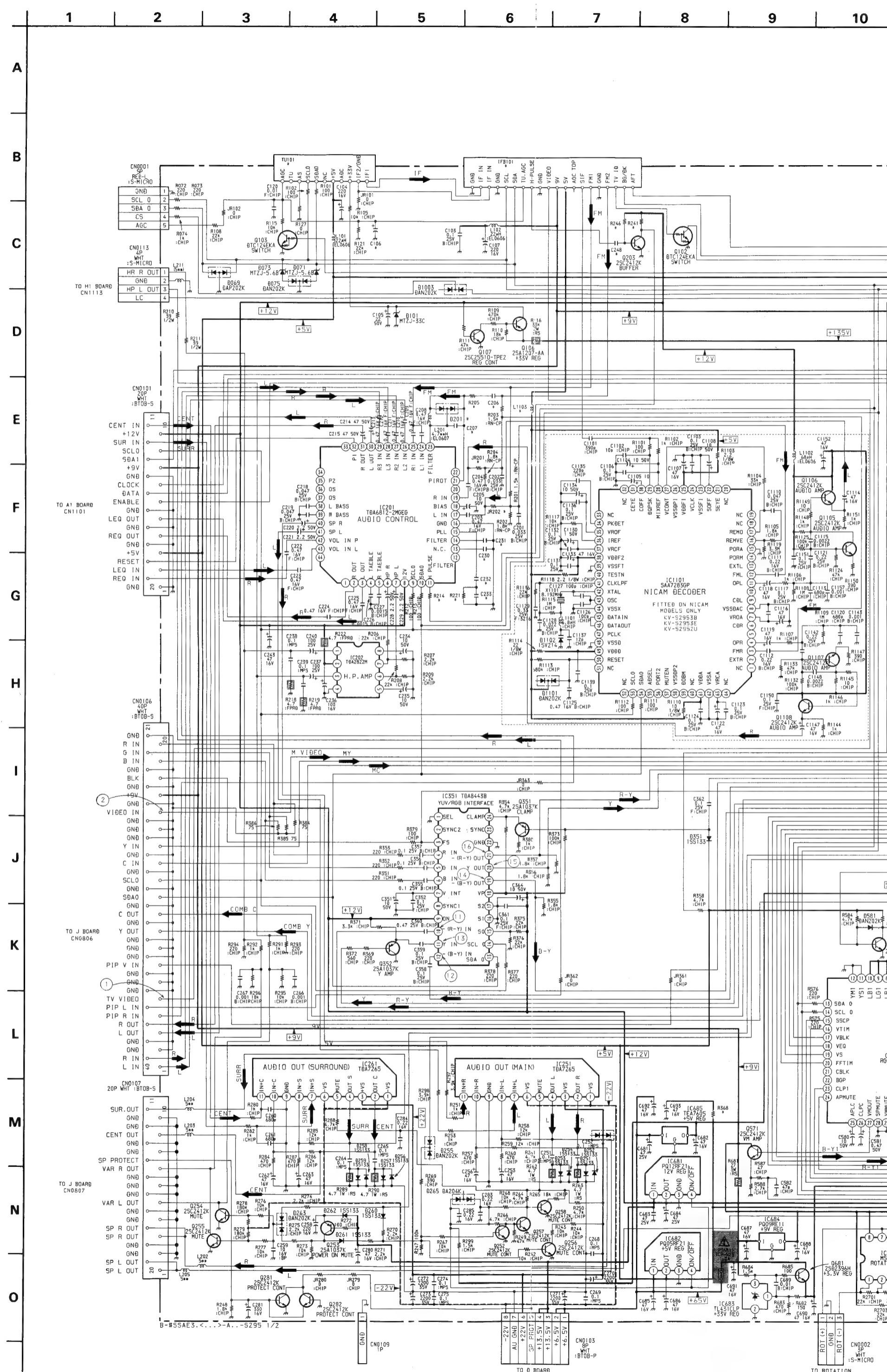


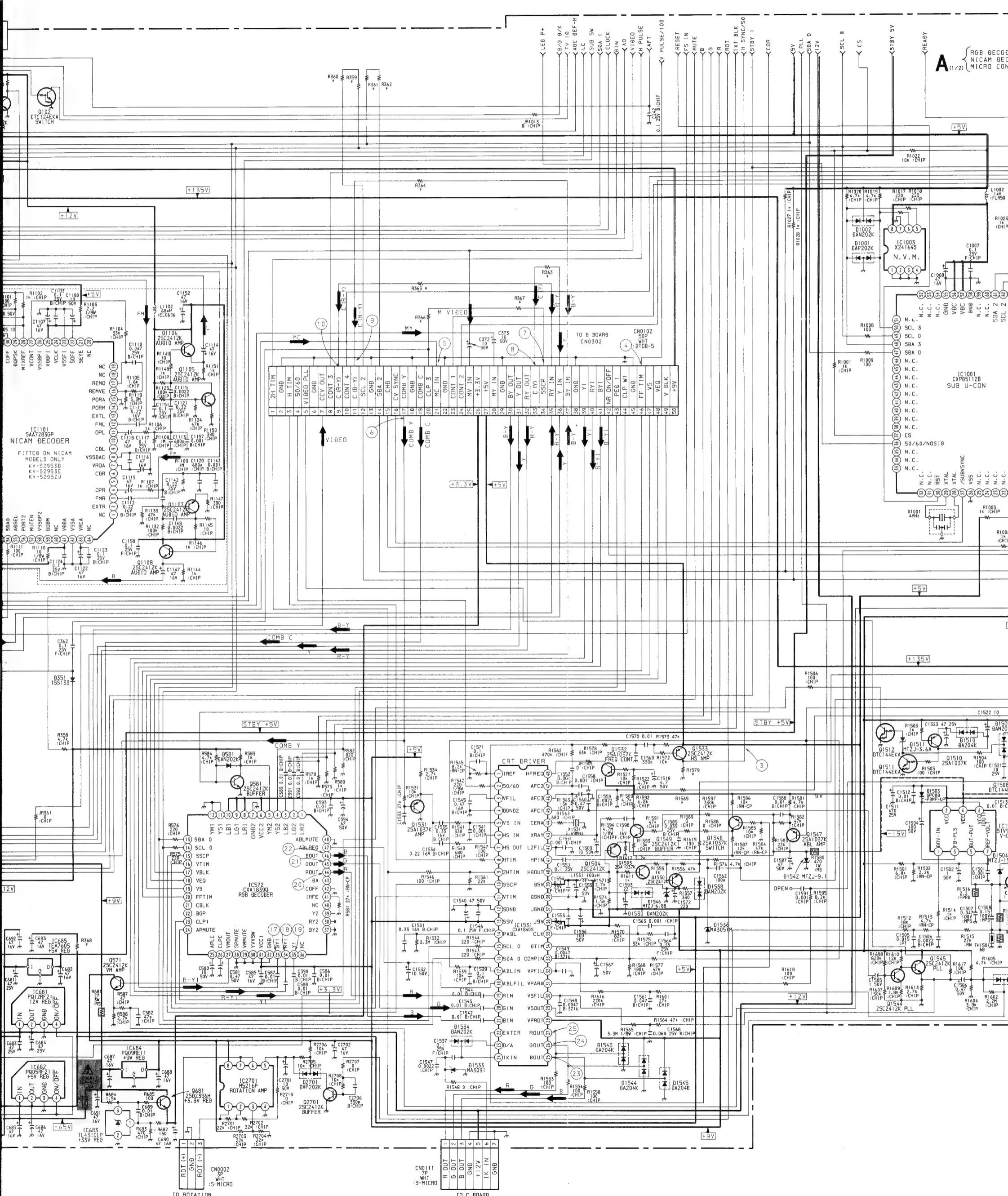
Board — <Component Side>

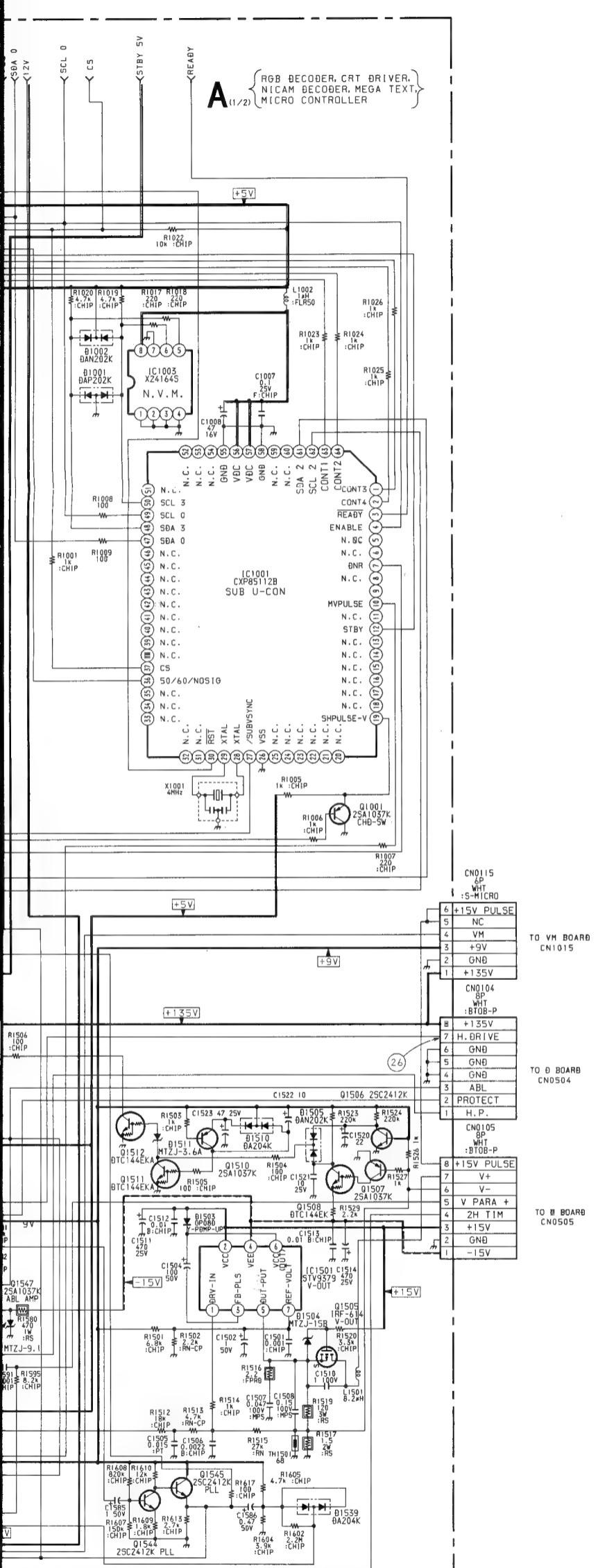


A BOARD * MARK

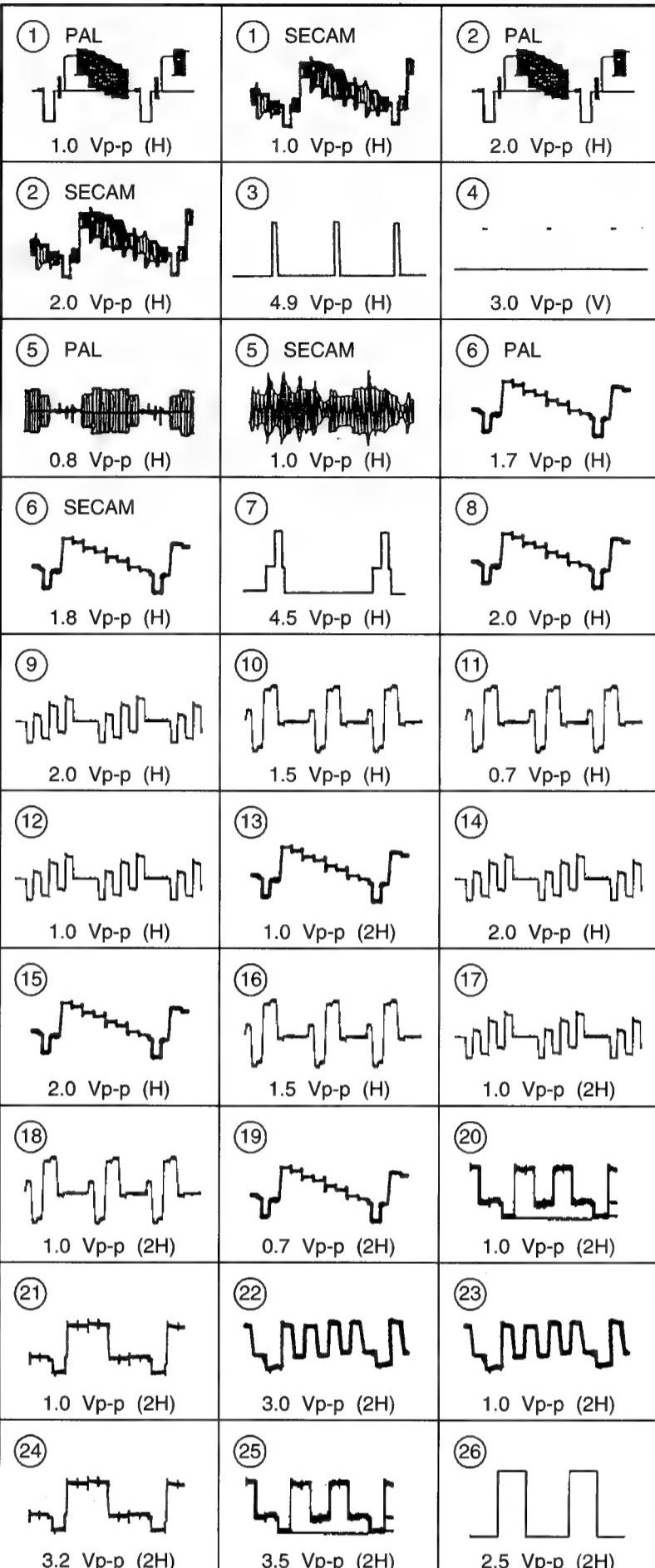
Ref. No.	S2951A	S2953B	S2951D	S2953E	S2951K	S2952U
C106	4.7MF 50V	100MF 16V	4.7MF 50V	4.7MF 50V	4.7MF 50V	4.7MF 50V
C206	0.0022MF	0.0022MF	0.0022MF	0.0022MF	—	—
C207	0.0018MF	0.0018MF	0.0018MF	0.0018MF	—	—
C230	1MF	1MF	1MF	1MF	1MF	—
C231	1MF	1MF	1MF	1MF	1MF	—
C232	0.0033MF	0.0033MF	0.0033MF	0.0033MF	—	—
C233	680P	680P	680P	680P	—	—
C248	150P	150P	150P	150P	—	—
D201	DA204K	DA204K	DA204K	DA204K	DA204K	DA204K
IFH101	IFH-389WE	IFH-389FX	IFH-389WE	IFH-389EE	IFH-395GB	—
L1103	—	68UH	—	68UH	—	68UH
JR201	0 : CHIP	—	0 : CHIP	—	0 : CHIP	—
JR202	0 : CHIP	—	0 : CHIP	—	0 : CHIP	—
Q203	2SC2412K	2SC2412K	2SC2412K	2SC2412K	2SC2412K	—
R205	5.6K	5.6K	5.6K	5.6K	5.6K	—
R214	100	100	100	100	100	—
R221	56K	56K	56K	56K	56K	—
R241	4.7K	4.7K	4.7K	4.7K	4.7K	—
R246	100K	100K	100K	100K	100K	—
R359	—	—	—	0 : CHIP	0 : CHIP	0 : CHIP
R360	—	0 : CHIP	—	—	—	—
R361	0 : CHIP	—	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
R362	—	0 : CHIP	—	—	—	—
R364	0 : CHIP	—	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
R365	0 : CHIP	—	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
R366	0 : CHIP	—	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
R367	—	0 : CHIP	—	—	—	—
R368	—	0 : CHIP	—	—	—	—
R1569	10K	10K	10K	10K	—	10K
R1572	10K	10K	10K	10K	—	10K
R1579	2.2K	2.2K	2.2K	2.2K	—	2.2K
TU101	UV1316	UV1316	UV1316	UV1316	UV1316	U1344





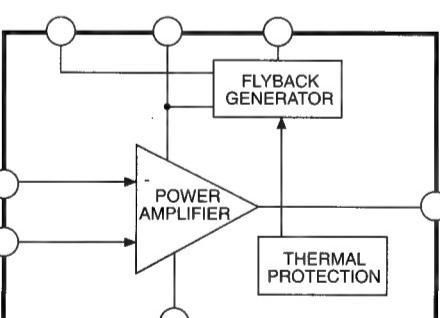


WAVEFORMS A BOARD

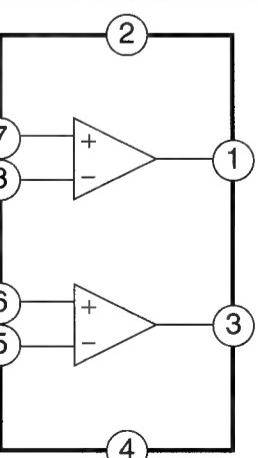


Ref.No.	Pin No.
IC1001	1
	2
	3
	4
	5-6
	7
	8-9
	10
	11
	12
	13-18
	19
	20-25
	26
	27
	28
	29
	30
	31-54
	55
	56
	57
	58
	59-60
	61
	62
	63
	64
IC1101	1-2
	3
	4
	5-6
	7
	8
	9-10
	11
	12
	13-14
	15
	16
	17
	18-21
	22
	23
	24
	25
	26
	27-30
	31-33
	34
	35-37
	38
	39
	40
	41
	42
	43

A Board IC1501 STV9379S

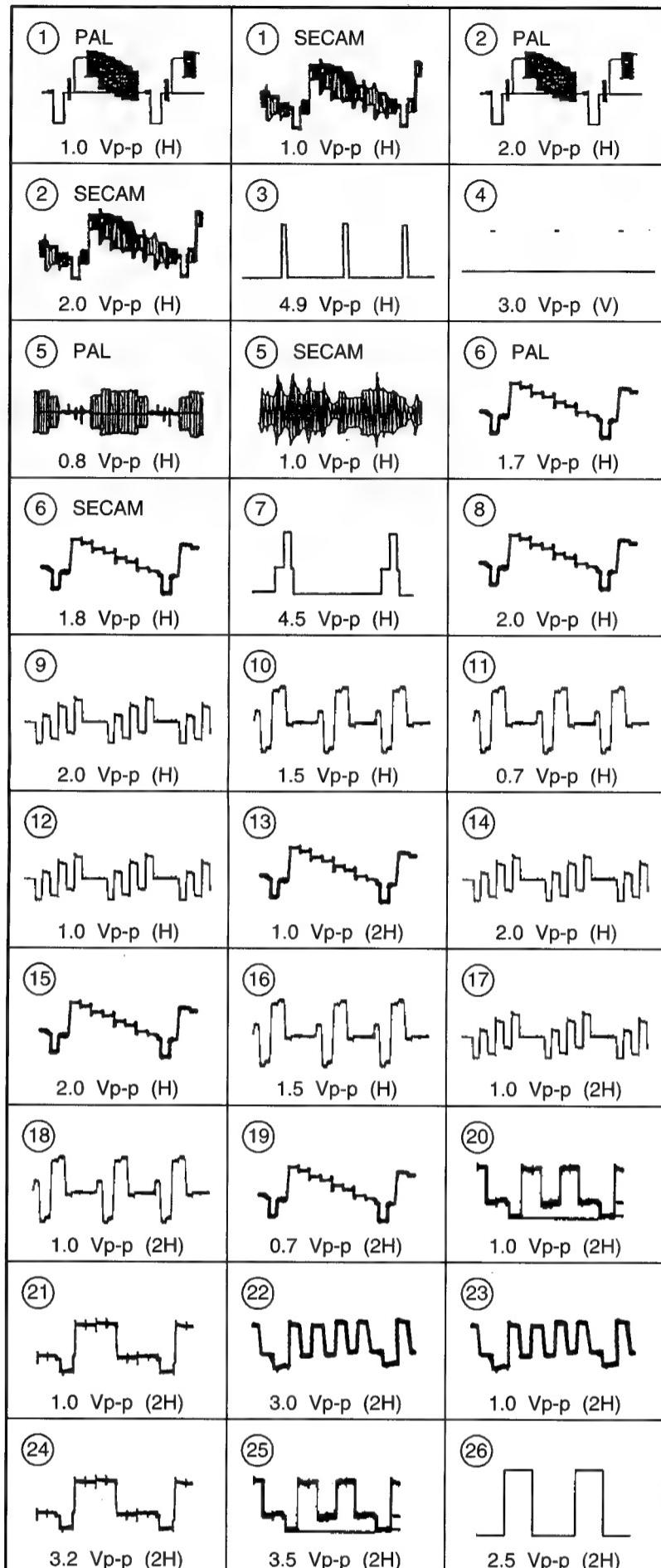


A Board IC202 TDA2822M

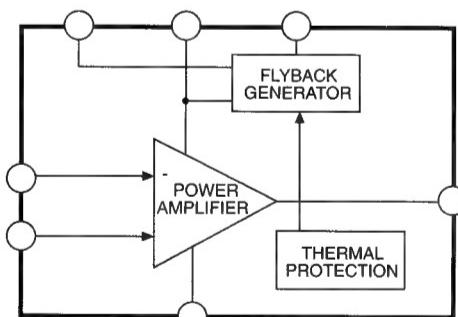


Ref.No.	Pin No.
IC684	1
	2
	3
IC685	1
	2
	3
IC686	1
	2
	3
	4
IC572	1-3
	6
	7
	8-10
	11-12
	13-14
	15
	16
	17
	18-20
	21-22
	23
	25
	26
	28-30
	31
	32
	33-35
	37-39
	41
	42
	44-45
	46
	47

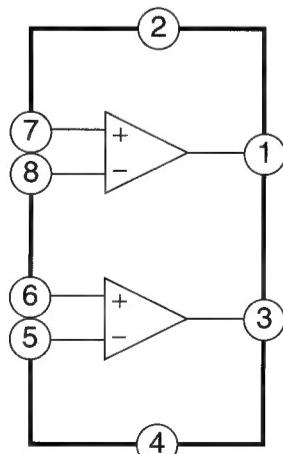
WAVEFORMS A BOARD



A Board IC1501 STV9379S



A Board IC202 TDA2822M

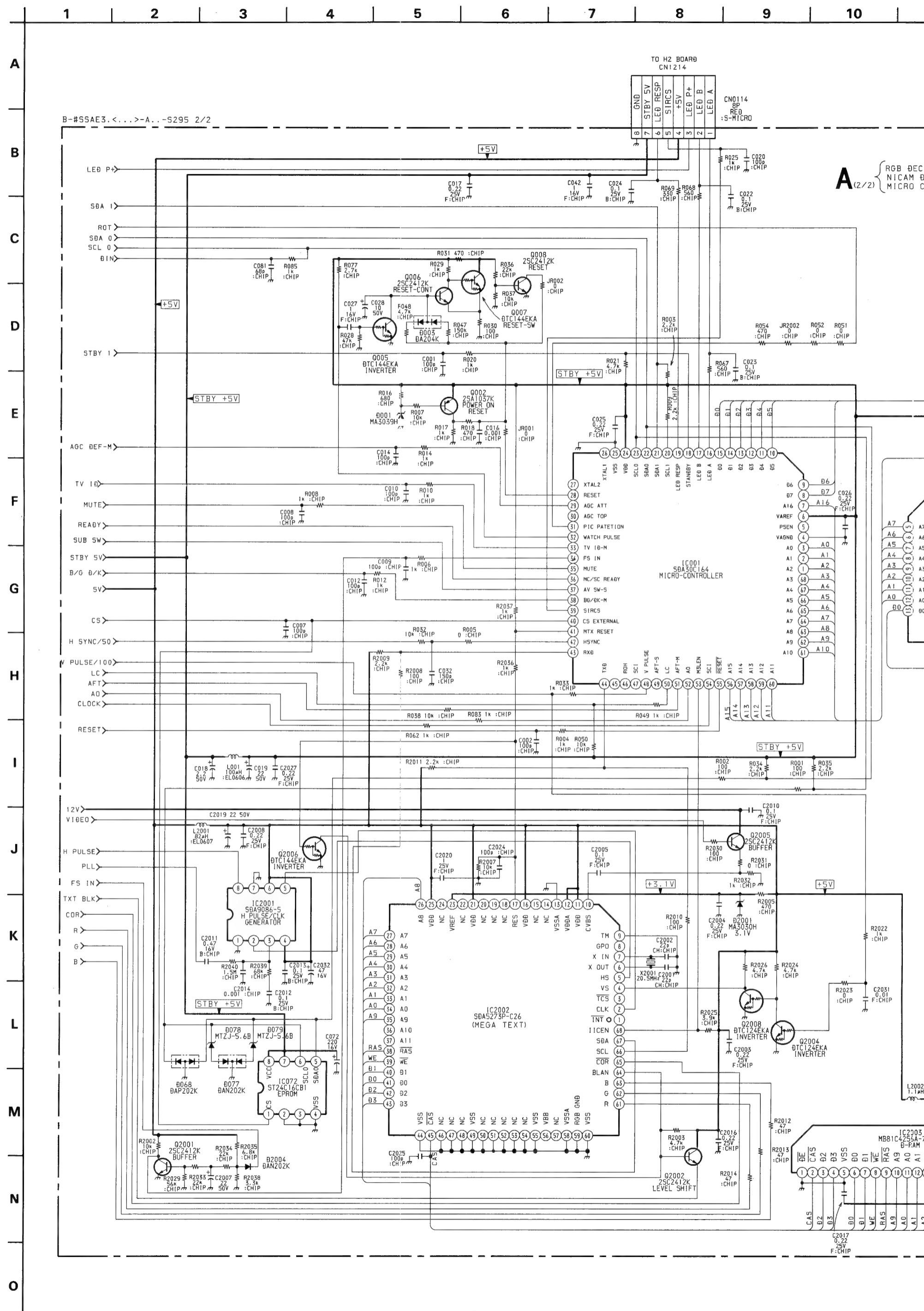


Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC1001	1	0		44	GND		5	3.6
	2	0		45-47	2.1		6	3.0
	3	5.0		48	GND		7	3.1
	4	4.0		49-50	4.4		8	1.7
	5-6	-		51-52	-		9	1.8
	7	0		53-54	4.0		10	0.8
	8-9	-		55-60	-		11	0.5
	10	0.2		61	4.4		12	GND
	11	-		62	GND		13	9.0
	12	1.5		63	2.2		14	0
	13-18	-		64	-		15	3.8
	19	1.0	IC201	1	0		16	4.0
	20-25	-		2-7	6.1		17	4.4
	26	GND		8	12.0		18	8.7
	27	2.0		9-10	4.0		19-21	3.6
	28	2.5		11	0.1		22	0.8
	29	2.5		12	0		23	2.4
	30	4.0		13-15	3.0		24	5.0
	31-54	-		16	0		25	2.1
	55	GND		17-19	6.1		26	2.2
	56	5.0		20	0		27	2.1
	57	5.0		21	6.1		28	8.0
	58	GND		22	0		29-32	4.0
	59-60	-		23-31	6.1		33	5.1
	61	6.3		32-35	0		34	0.2
	62	4.2		36-43	6.1		35	2.4
	63	0		44	0		36	9.0
	64	0	IC202	1	5.4		37	GND
IC1101	1-2	-		2	12.0		38	0
	3	1.0		3	5.4		39	5.0
	4	2.2		4	GND		40	2.1
	5-6	-		5	0.5		41	2.2
	7	2.2		6-7	0		42	4.2
	8	0		8	0.5		43	0
	9-10	-	IC2701	1-3	4.4		44	-
	11	2.2		4.0	-		45-47	4.6
	12	1.0		5-7	-		48	4.4
	13-14	-		8.0	0	IC1501	1	2.2
	15	GND		9.0	0.2		2	14.0
	16	2.2	IC1003	1-4	GND		3	-14.0
	17	4.0		5-6	5.0		4	-16.0
	18-21	-		7	GND		5	-1.4
	22	2.2		8	5.0		6	14.5
	23	0	IC251/261	1	-20.0		7	2.2
	24	-		2	0	IC681	1	13.3
	25	2.2		3	20.0		2	12.0
	26	-		4	0		3	GND
	27-30	2.1		5	10.0	IC682	1	5.7
	31-33	-		6	-20.0		2	5.0
	34	1.8		7-8	0		3	GND
	35-37	2.1		9	GND		4	2.3
	38	4.1		10-11	0	IC683	1	2.4
	39	GND	IC1531	1	3.7		2	GND
	40	-		2	0.3		3	4.0
	41	1.7		3	5.8			
	42	3.1		4	GND			
	43	2.1						

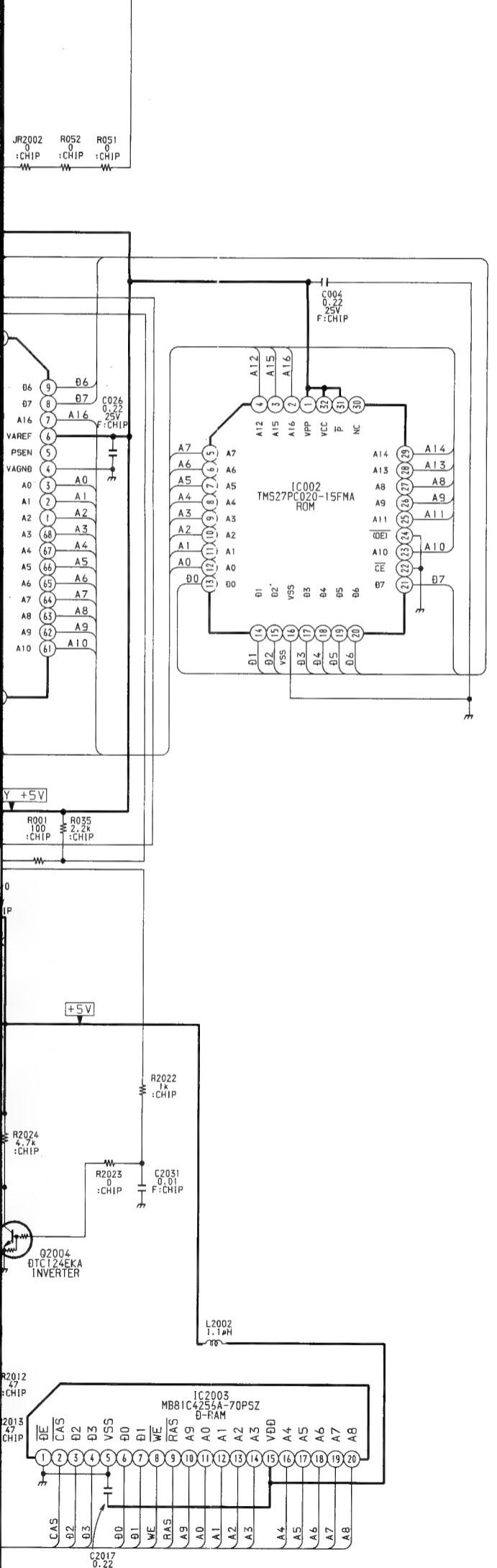
All Voltages are indicated in Volts DC

Ref.No.	Pin No.	Voltage (V)
IC684	1	11.9
	2	GND
	3	9.0
IC685	1	5.8
	2	GND
	3	5.0
IC686	1	5.6
	2	5.0
	3	GND
	4	2.3
IC572	1-3	6.0
	6	9.0
	7	GND
	8-10	9.0
	11-12	GND
	13-14	4.0
	15	0.8
	16	0.6
	17	0.5
	18-20	0.3
	21-22	NC
	23	0.2
	25	4.0
	26	4.7
	28-30	GND
	31	9.0
	32	GND
	33-35	4.4
	37-39	GND
	41	2.5
	42	GND
	44-45	2.7
	46	2.6
	47	8.7
	48	NC

Ref.No.	(B) Base	(C) Collector	(E) Emitter
Q102	4.7	0	0
Q103	0	1.7	0
Q106	31.4	32.0	32.0
Q107	0.5	0	0
Q203	0.6	0.1	0
Q251	0.6	0	0
Q252	0	0.6	0
Q253	13.4	-0.4	13.4
Q254	-2.1	0	0
Q255	-2.0	0	0
Q256	-0.1	2.3	0
Q257	0.6	0	0
Q259	21.5	10.5	21.1
Q260	0	21.5	0
Q351	2.8	1.7	3.5
Q352	1.8	0	2.5
Q571	6.4	9.0	5.7
Q581	0.6	0	0
Q1001	0.3	0	1.0
Q1105	3.0	5.6	2.4
Q1107	3.0	5.8	2.4
Q1108	5.8	11.8	5.2
Q1502	0.4	9.0	-3.7
Q1531	5.6	0	6.1
Q1532	9.0	4.4	9.0
Q1533	0.5	0.4	0
Q1544	1.1	4.5	0.6
Q1545	4.5	9.0	4.0
Q1447	4.4	-9.0	5.0
Q1548	6.4	9.0	5.7
Q1549	0.9	-0.2	1.4
Q1532	-1.2	3.0	-1.8



A (2/2) {
RGB DECODER, CRT DRIVER
NICAM DECODER, MEGA TEXT,
MICRO CONTROLLER}



Ref.No.	Pin No.	Voltage (V)
IC001	6	5.0
	16-17	3.7
	18	2.5
	19	3.6
	20-21	5.0
	22-23	4.0
	24	5.0
	26	2.1
	27	2.3
	28	4.7
	29	0
	30	4.8
	31	2.4
	32	1.6
	34	5.0
	36	5.0
	37	3.4
	38	3.3
	39-40	5.0
	41	0.1
	42	0.4
	43	5.0
	44	4.8
	48	0.3
	49	1.3
	50	5.0
	51	2.4
	52	5.0
	53	4.5
	54	5.0
	55	3.8
IC002	1	5.0
	31-32	5.0
IC2002	2	1.5
	4-5	0.1
	6-7	1.7
	10	0.8
	11-12	5.0
	16	5.0
	17	0.1
	21	5.0
	23	3.0
	25	5.0
	45	4.4
	65	0.6
	66-67	5.0
	68	4.5
IC2003	15	4.5

Pin No.	(B) Base	(C) Collector	(E) Emitter
Q002	4.2	4.7	4.8
Q005	-0.1	0	0
Q006	0	4.8	0.8
Q007	4.8	0.9	0.8
Q008	0.3	4.8	0
Q2001	0.3	5.0	0
Q2002	0	4.8	0
Q2004	0.3	4.0	0
Q2005	3.8	12.0	3.1
Q2006	0.1	0	0
Q2008	4.0	0.1	0

J BOARD

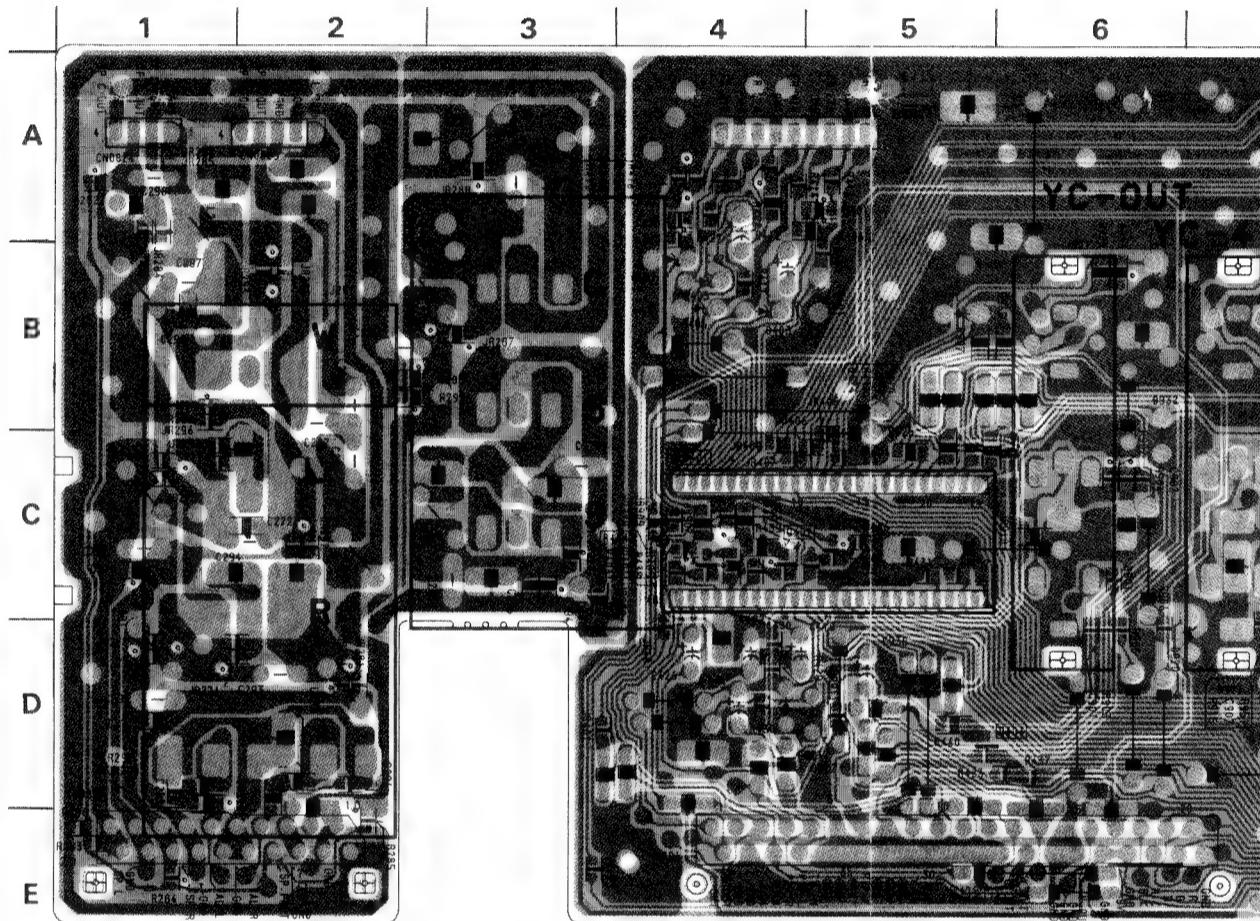
IC	
IC401	C-4
IC402	D-9
TRANSISTOR	
Q401	C-4
Q402	C-4
Q403	C-5
Q404	D-6
DIODE	
D401	B-5
D403	B-4
D405	B-4
D406	B-4
D407	B-4
D901	B-5
D902	B-6
D903	A-8
D904	A-9
D905	B-7
D906	A-7
D907	B-11
D908	E-11
D909	C-11
D910	C-11
D911	E-11
D913	B-9
D914	E-10
D915	C-8
D916	D-9
D917	D-8
D919	B-8
D920	D-6
D921	D-4
D922	D-5
D923	D-7
D924	D-10
D925	D-11
D926	D-10
D927	E-11
D928	B-11
D930	B-10
D931	A-7
D932	B-6

• : Pattern from the side which enables see
• : Pattern of the rear side.

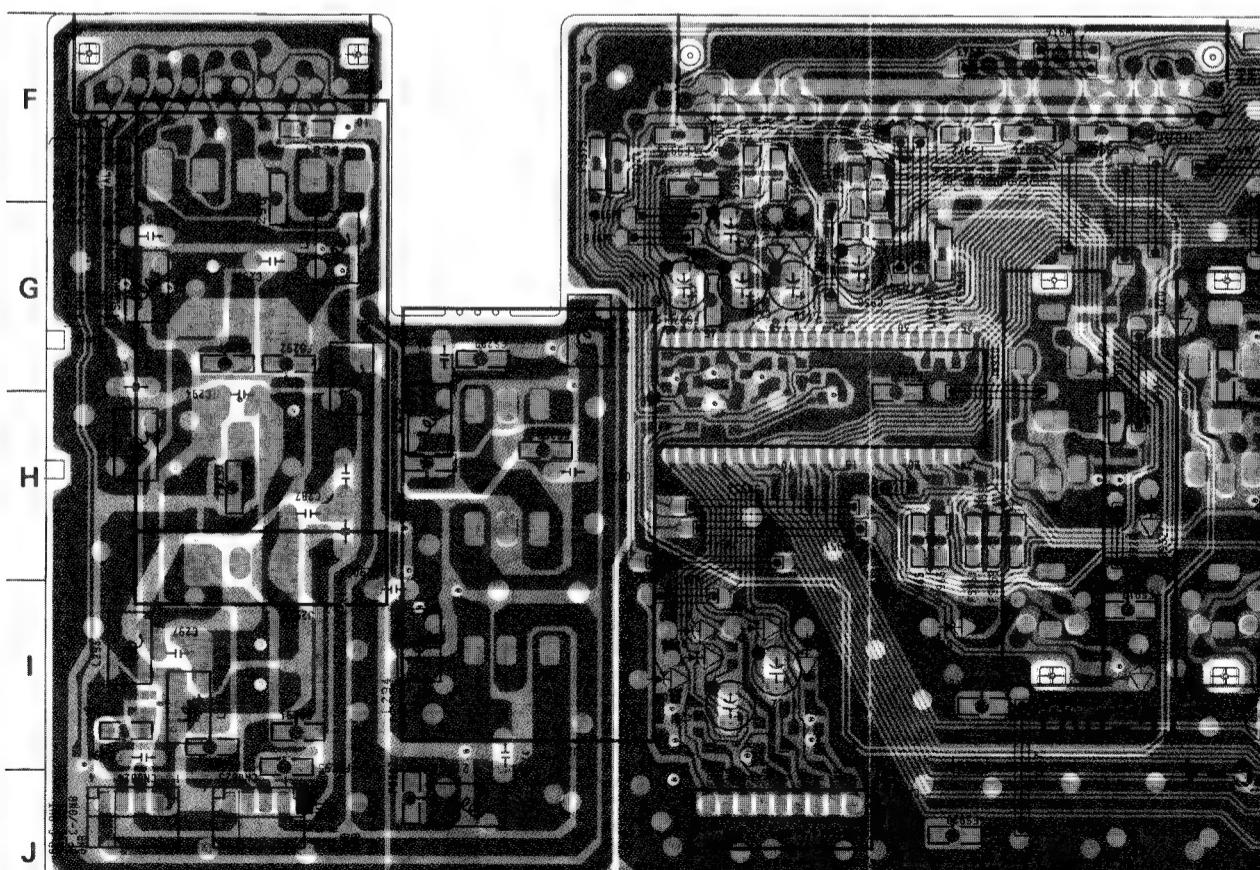
(B) Base	(C) Collector	(E) Emitter
4.2	4.7	4.8
0.1	0	0
0	4.8	0.8
4.8	0.9	0.8
0.3	4.8	0
0.3	5.0	0
0	4.8	0
0.3	4.0	0
3.8	12.0	3.1
0.1	0	0
4.0	0.1	0

J [VIDEO/AUDIO IN/OUT,
SPEAKER TERMINAL]

— J Board — <Conductor Side>



— J Board — <Component Side>

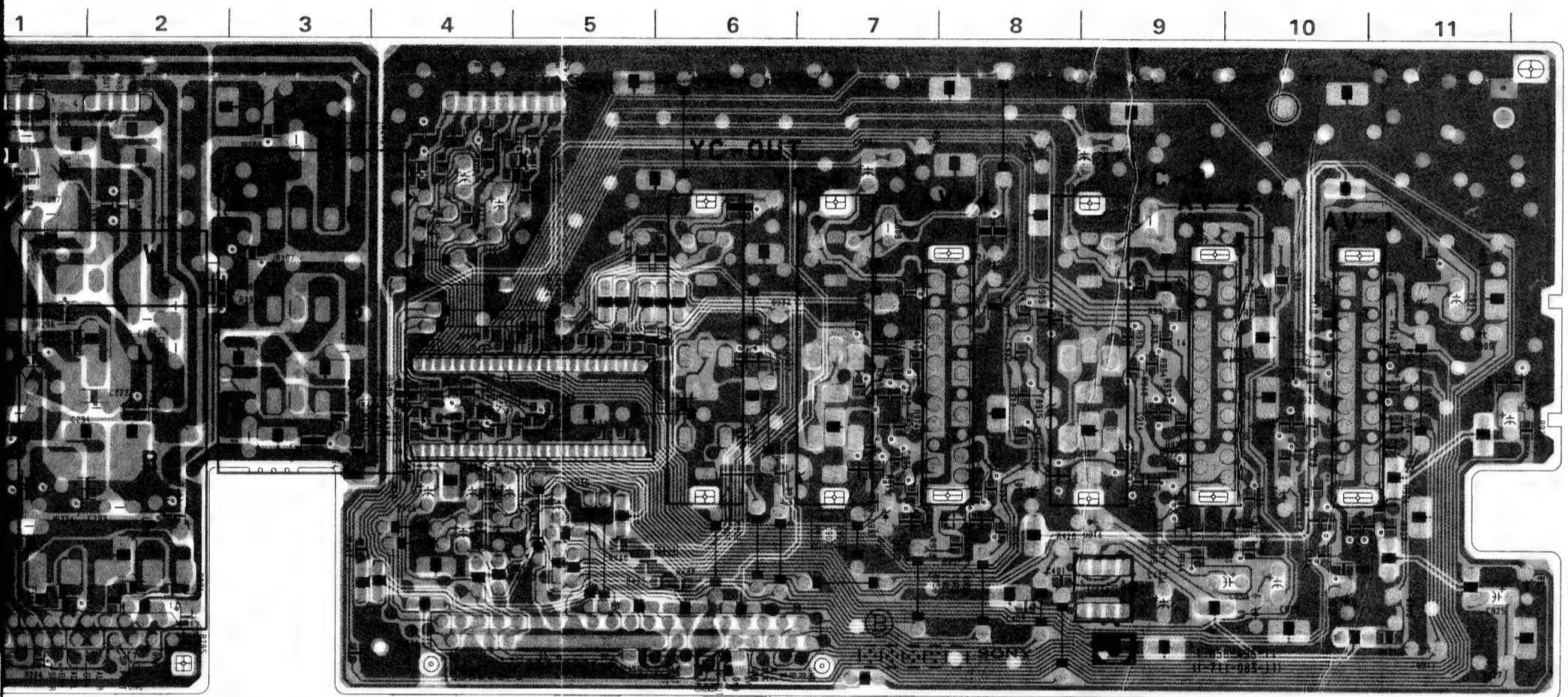


MC-Service

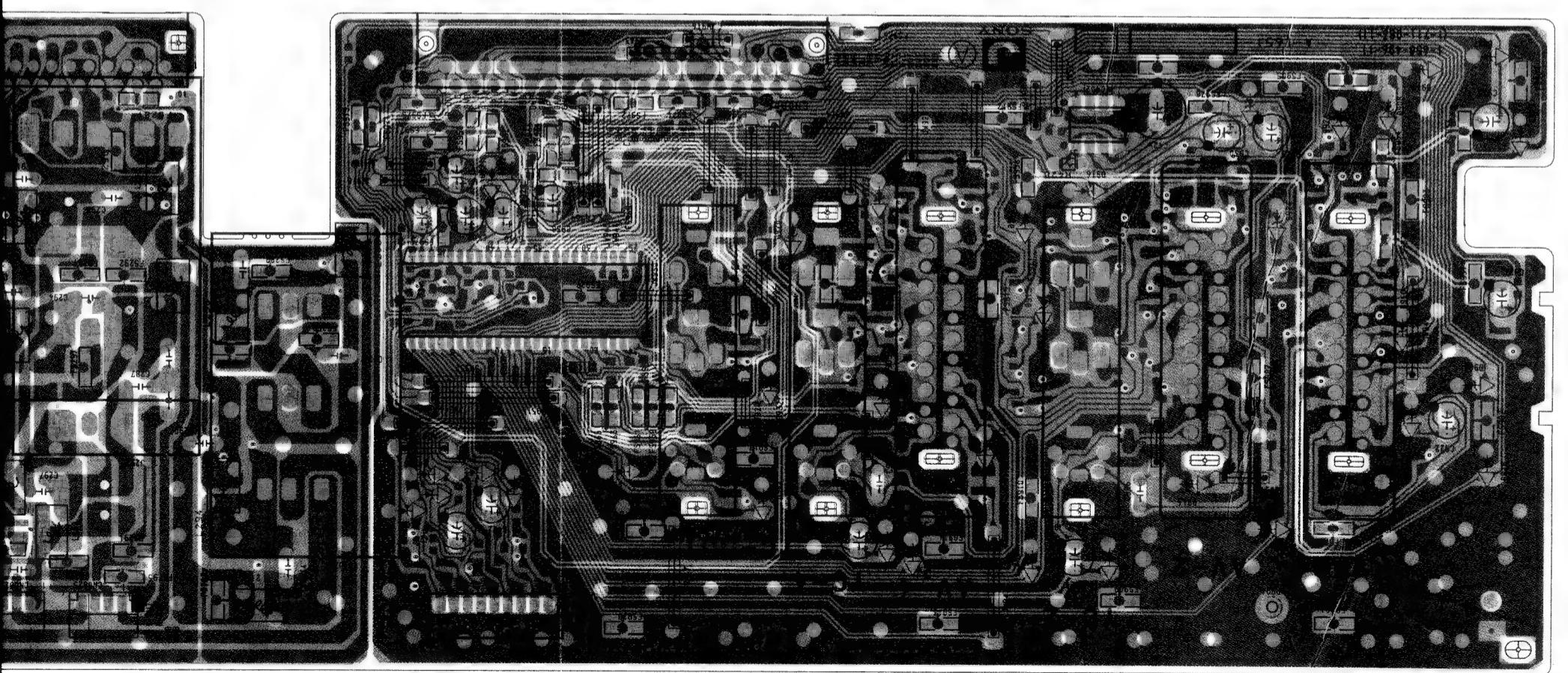
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

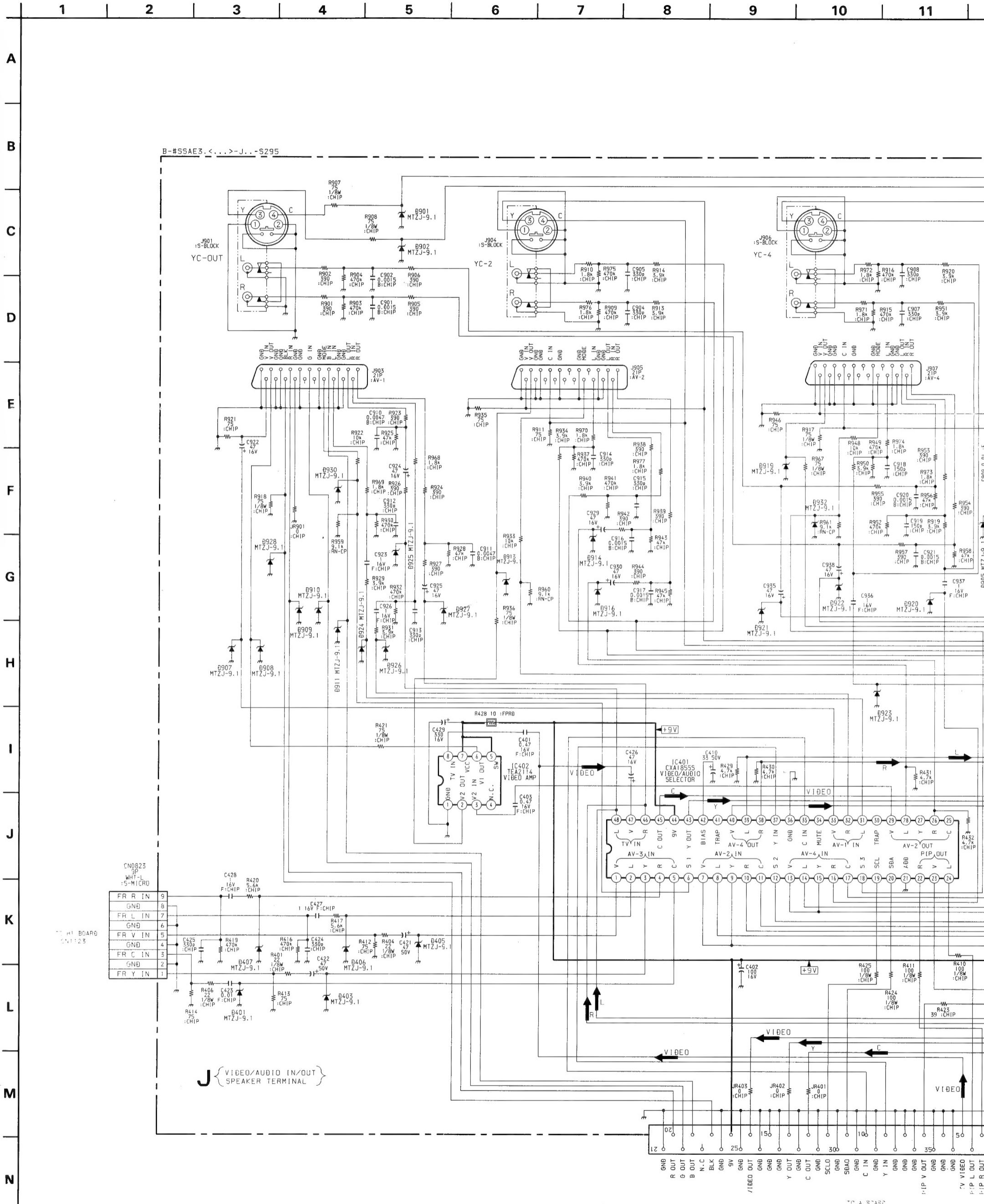
VIDEO/AUDIO IN/OUT,
SPEAKER TERMINAL

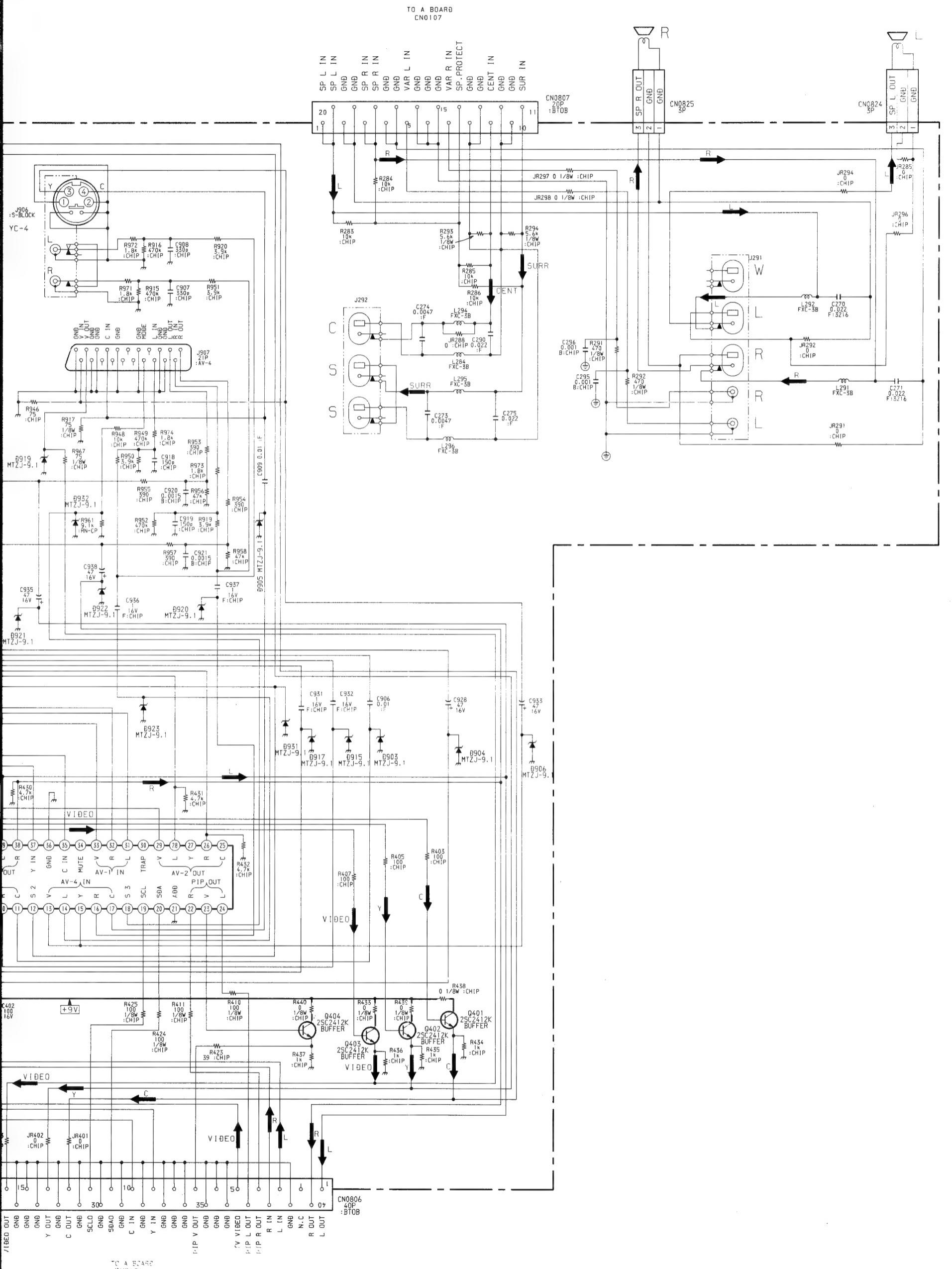
rd — <Conductor Side>

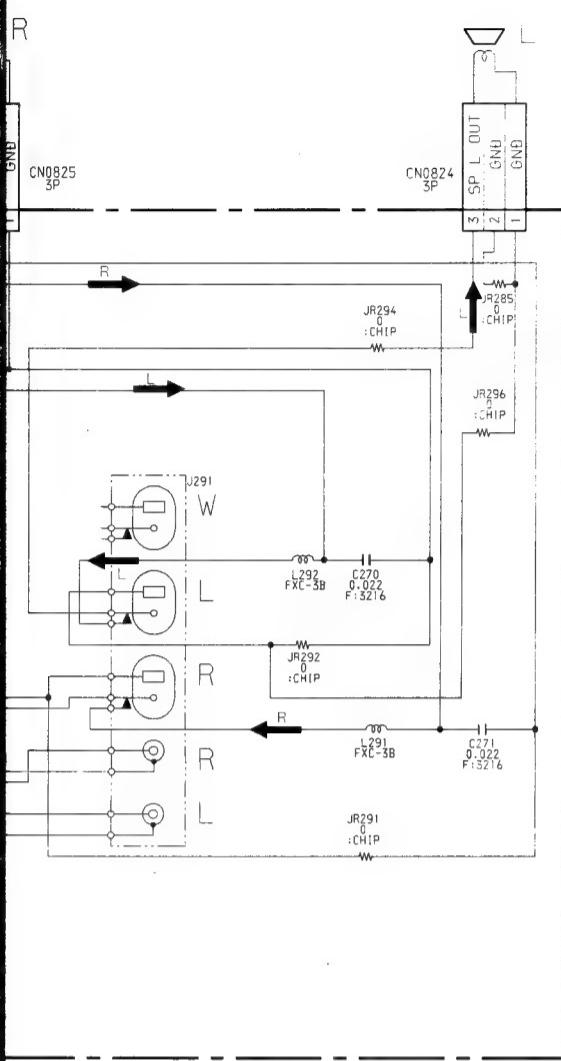


ard — <Component Side>





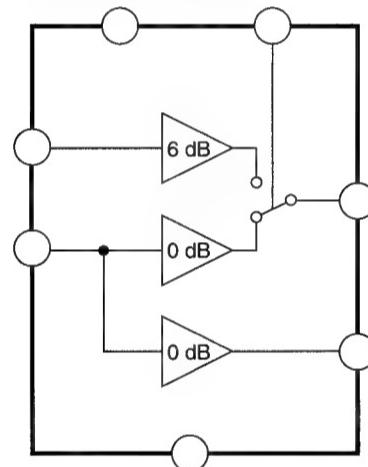




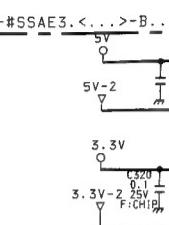
Ref.No.	Pin No.	Voltage (V)
IC401	1-5	4.5
	7-11	4.5
	13-17	4.5
	19-20	4.0
	22-33	4.5
	35	5.5
	37	5.5
	38-39	4.5
	40-41	4.4
	42	4.5
	43	5.4
	44	9.0
	45	5.5
	46	4.7
	47-48	4.5
IC402	2	1.8
	3	2.5
	5	8.8
	6	1.7
	7	8.8
	8	2.2

Pin No. Ref.No.	(B) Base	(C) Collector	(E) Emitter
Q401	5.7	9.0	-0.3
Q402	5.5	9.0	5.0
Q403/404	4.4	9.0	3.9

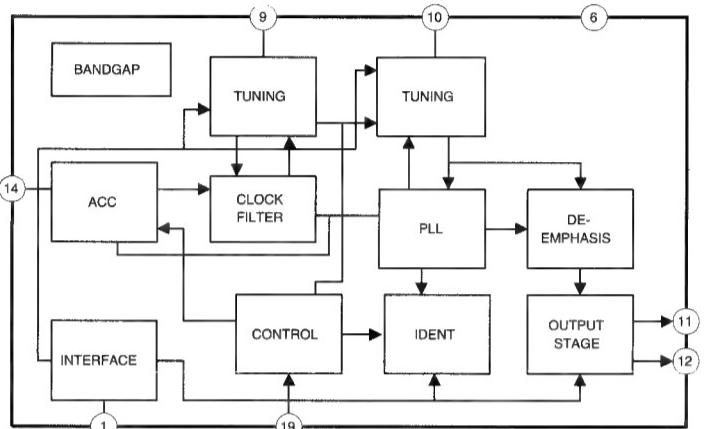
J Board IC402 TEA2114



A
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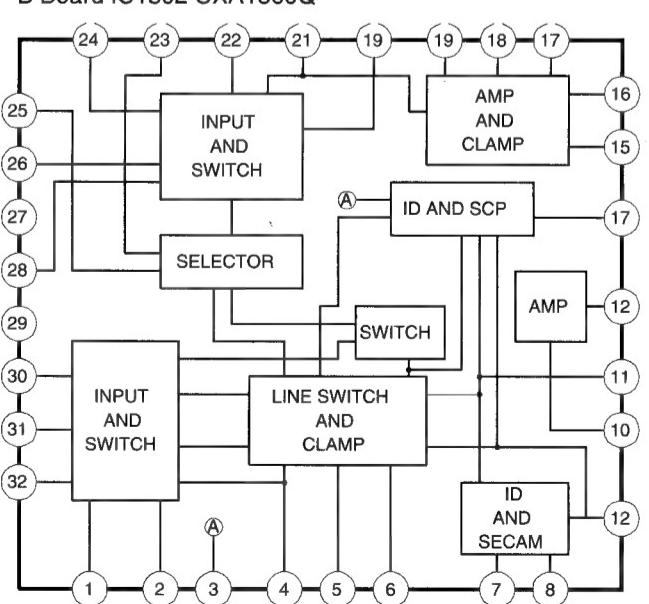


B Board IC1301 TDA8395T/NZ

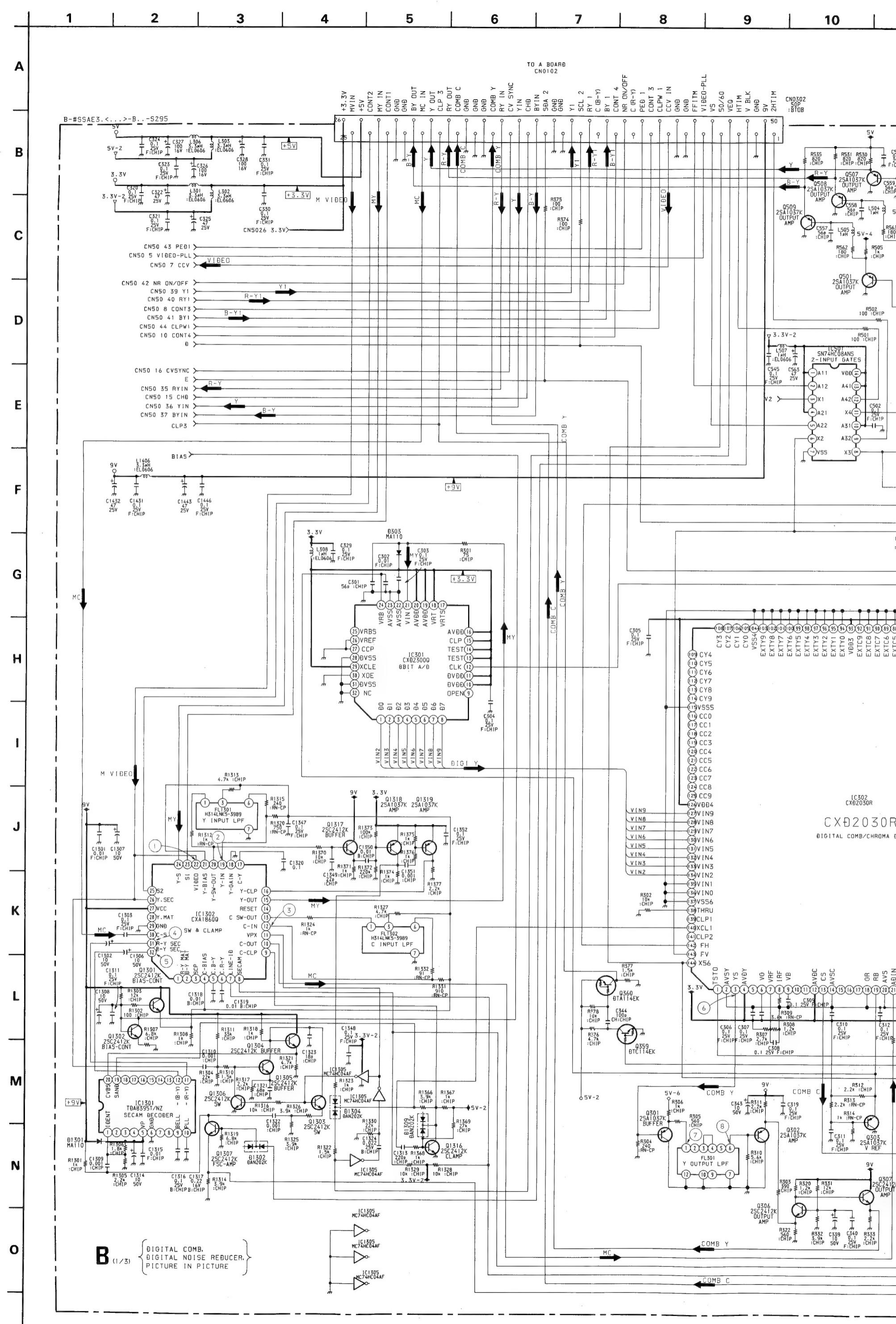


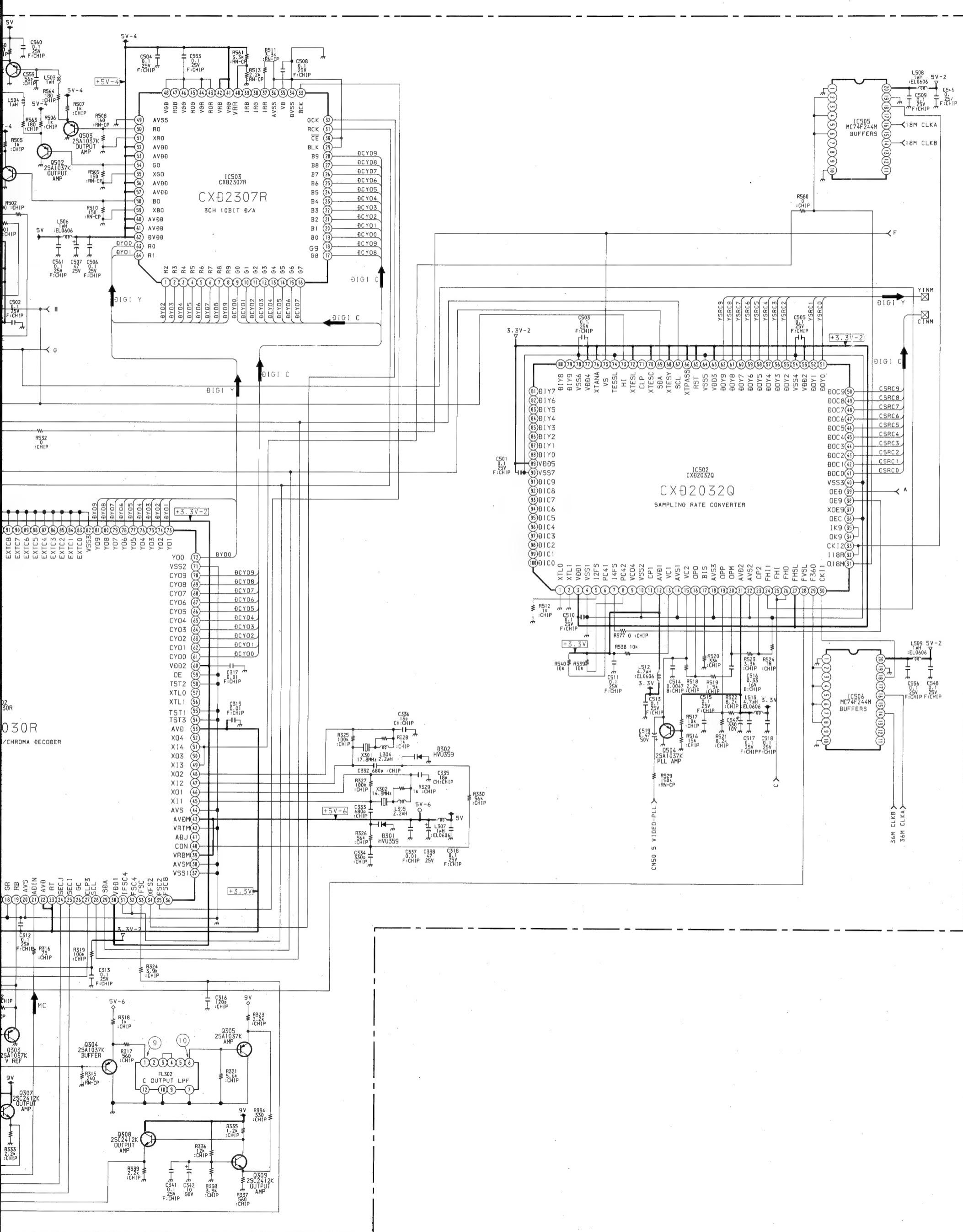
Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC301	10-11	3.2		53	3.1		10	2.4
	12	1.1		63	3.1		11	3.0
	13-16	3.2		65-66	3.1		12-13	2.8
	18-20	3.2		67	4.2		15	2.3
	21	2.3		68	3.1		16	0.1
	24	1.7		69	4.1		17	3.0
	29	3.2		70	3.1		19-21	2.8
IC302	1	3.0		72	3.1		22	3.6
	3	0.4		73	1.6		24	3.6
	4	3.2		75	0.1		26	3.6
	6	1.4		76-77	3.1		27	8.8
	7-8	1.0		89	3.1		30	4.2
	9	0.4	IC503	31-33	1.2		31-32	4.0
	12	3.2		35	1.2			
	13	0.5		37	1.9			
	21	2.4		40	2.0			
	22-23	3.2		41-42	5.0			
	24	0.1		43-44	3.0			
	25	2.2		46	3.0			
	27	0.1		48	3.0			
	28-29	4.2		50	0.6			
	30	3.0		52-53	4.8			
	31-35	1.2		54	0.6			
	39	4.8		56	4.8			
	40	2.6		58	0.6			
	43	4.8		60-61	4.8			
	45	3.1		62	1.4			
	46	3.1	IC1505	2	1.2			
	47-48	1.6		4	1.2			
	49	1.2		6	1.2			
	51	1.2		14	1.5			
	53	3.2		16	1.5			
	60	3.1		18	1.5			
	93	3.1		20	4.8			
IC502	3	3.1	IC1506	2	1.0			
	5	1.0		4	1.0			
	6	1.6		6	1.0			
	7-9	1.0		8	1.0			
	11	1.5		12	1.3			
	12	3.2		14	1.4			
	13	1.5		16	1.4			
	15	1.8		18	1.4			
	16	1.8		20	4.8			
	17	1.2	IC1301	1	4.4			
	19-20	1.6		5	8.0			
	21	3.2		9	3.2			
	23-25	1.6		10	4.2			
	26	1.7		11-12	2.9			
	27	3.1		19	0.5			
	28	0.3		20	7.0			
	29	1.1	IC1302	4	2.8			
	30	1.6		5-6	4.2			
	31	1.2		7	2.2			
	32-33	1.5		8	0.1			
	34-35	1.3		9	0.2			

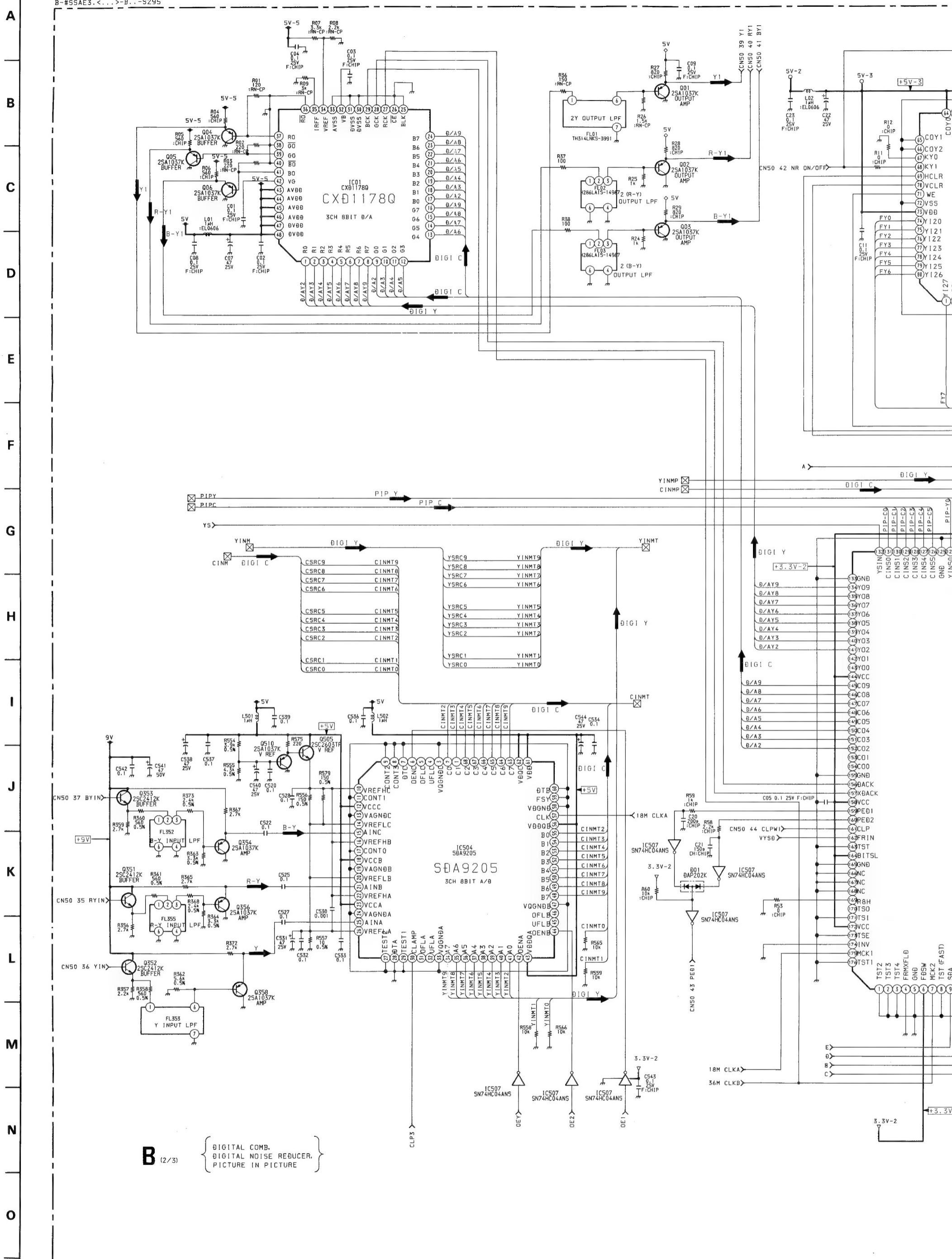
B Board IC1302 CXA1860Q

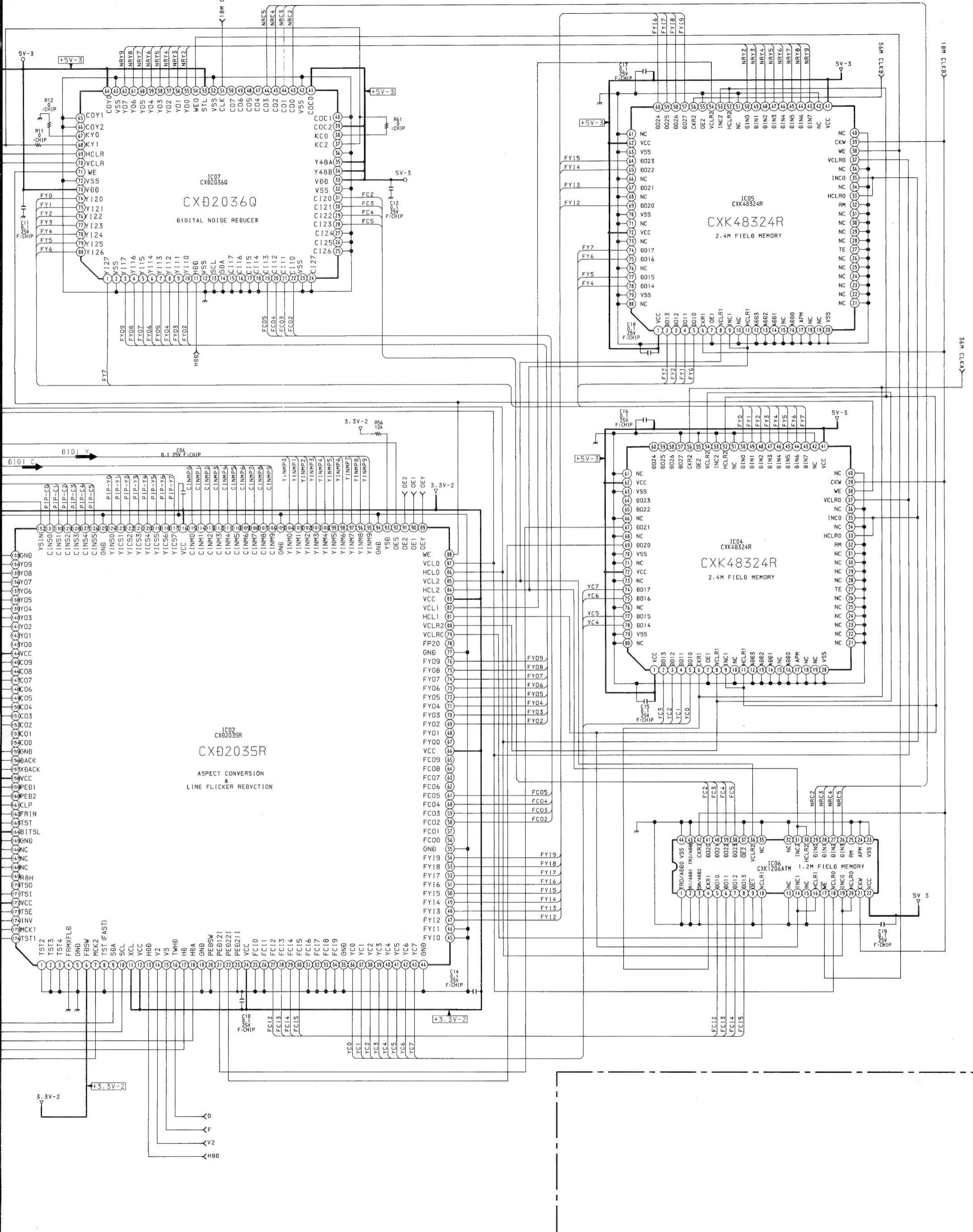


B (1/3)





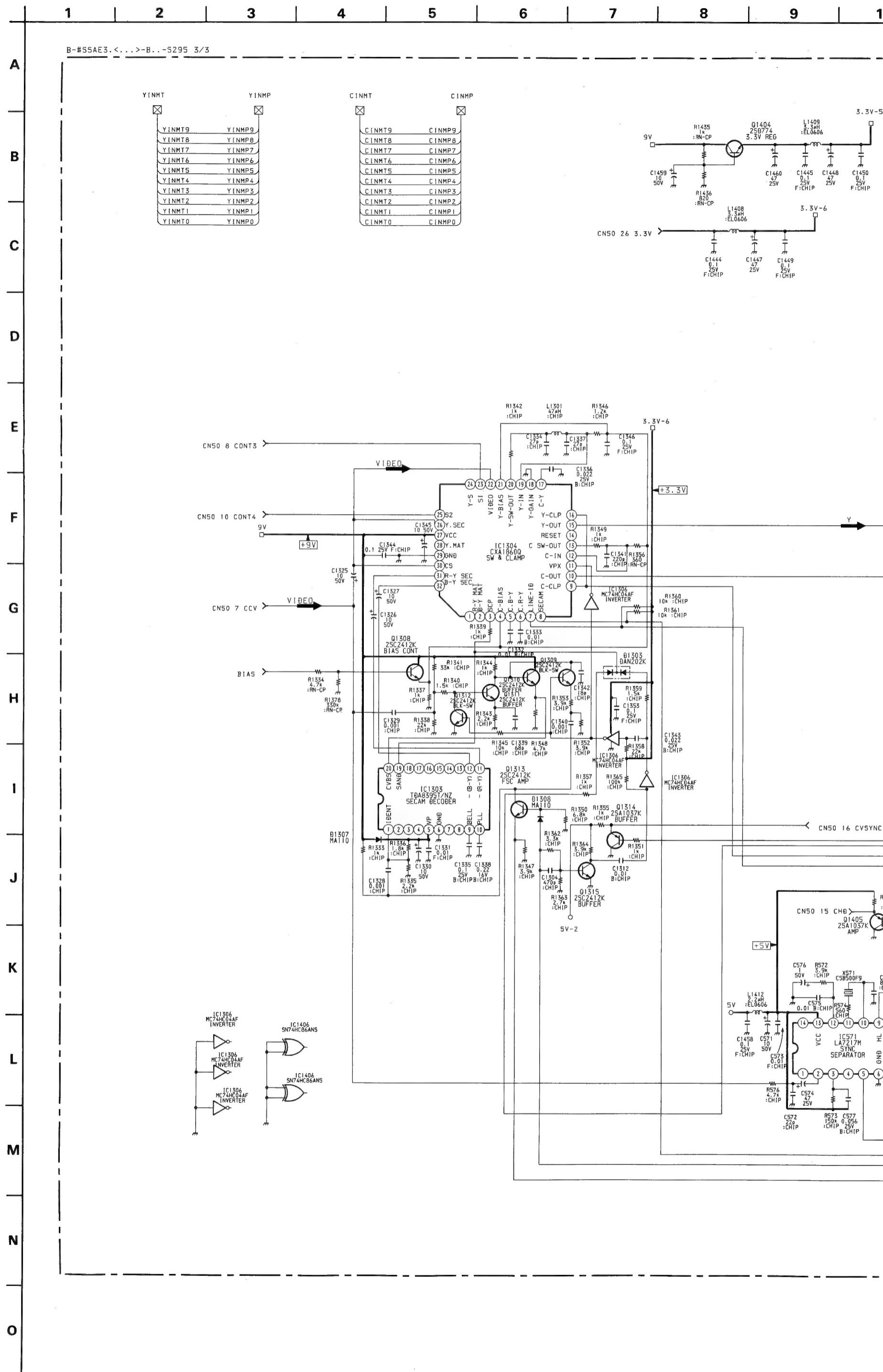


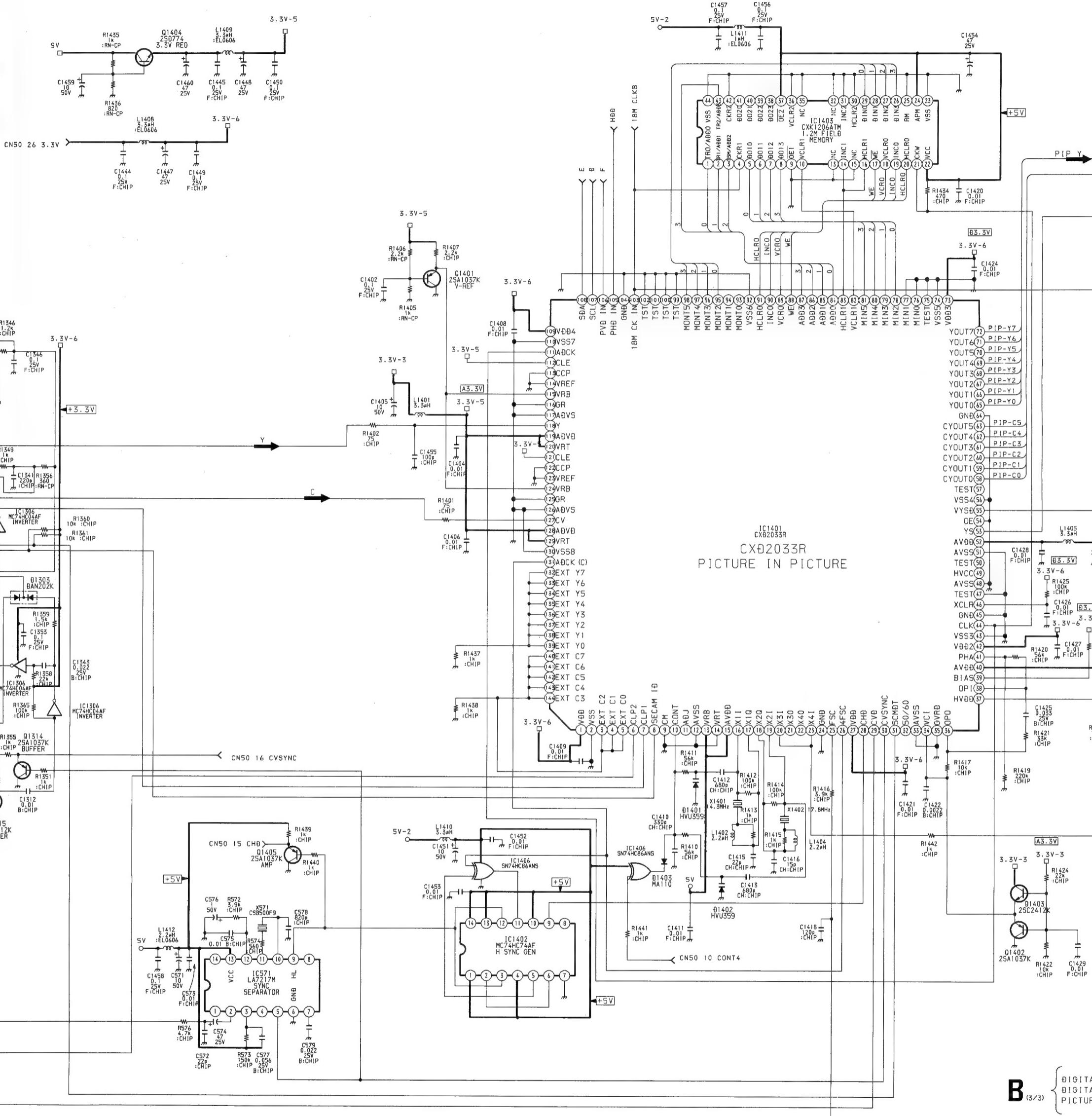


Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)	Pin No.	(B) Base	(C) Collector	(E) Emitter
IC01	27	1.2		4	1.3				
	28-29	1.5		10	0				
	32	1.1		17	1.0				
	34-35	1.9		21	1.2				
	37	0.3		22	4.8				
	39	1.1		42	1.3				
	41	1.1	IC06	11	1.6				
	42	3.0		33-35	4.8				
	43-48	4.8		39	4.8				
IC02	6	3.1		41	4.8				
	7	1.3		51	1.4				
	9-10	4.2		53	4.8				
	11-12	3.0		54	1.0				
	13	1.6		64	4.8				
	15	0.1		71	0.7				
	16	1.6		73	4.8				
	17	1.7							
	18	1.6							
	21-22	0							
	24	3.1							
	66	3.1							
	79-82	0							
	83	3.0							
	84-87	0							
	88	0.7							
	89-91	3.0							
	92-93	0							
	132	0							
	144	3.1							
	156	1.5							
	157	3.1							
	158-159	0							
	160	0.1							
	164	3.1							
	172	3.1							
	175	1.5							
IC04	1	4.8							
	6	1.2							
	8-9	0							
	11	0							
	38	0.7							
	39	1.3							
	41	4.8							
	56	1.5							
	62	4.8							
	72	4.8							
IC05	1	4.8							
	6	1.4							
	38	1.0							
	39	1.4							
	41	4.8							
	56	1.2							
	62	4.8							
	72	4.8							

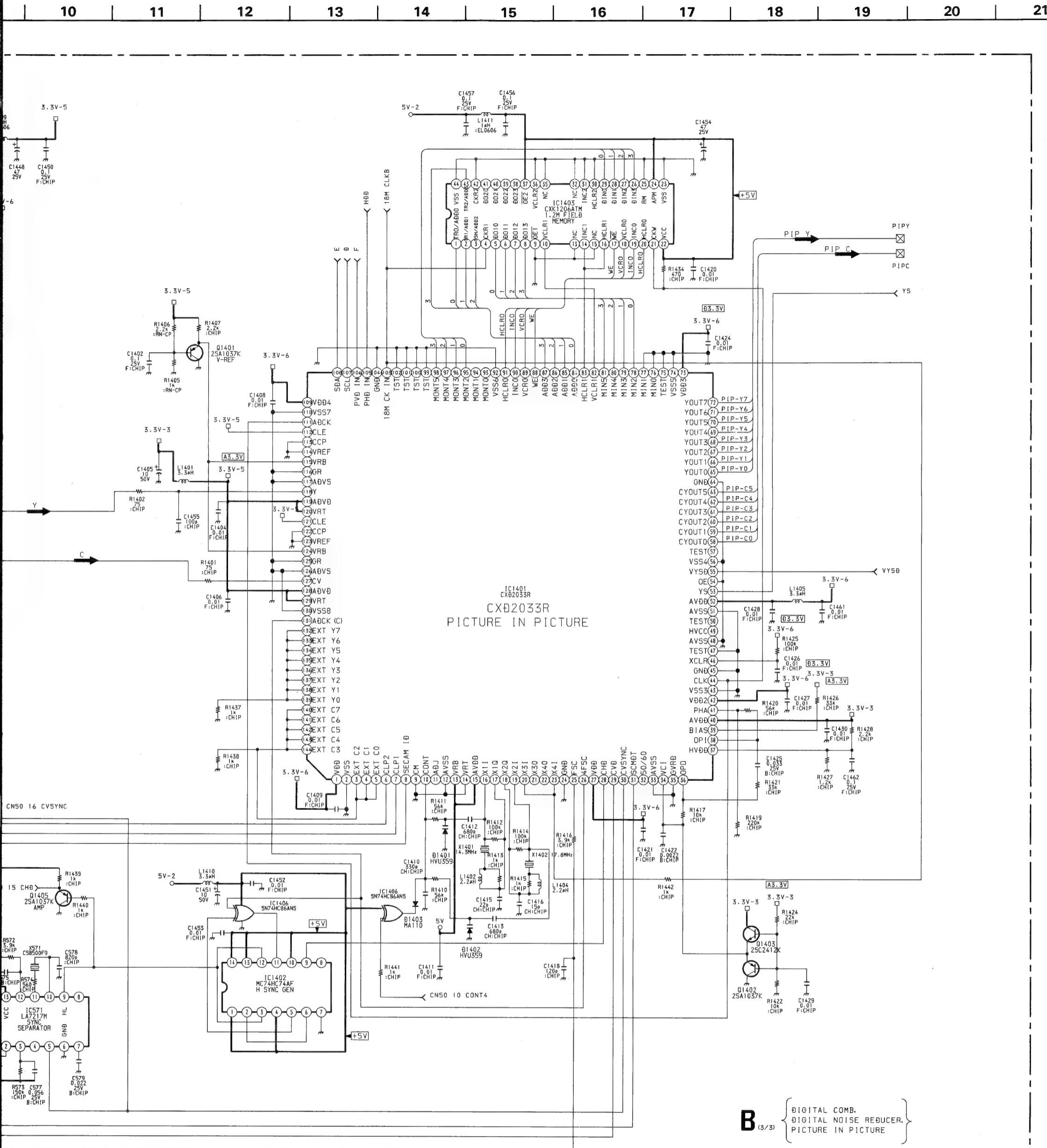
Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC571	2	2.3		37-38	1.1
	3	2.8		39	1.2
	5	4.1		40	3.3
	7	4.7		41	1.1
	9	3.9		42	3.2
	10	3.8		44	1.8
	11	2.6		46	3.2
	12	2.1		52	3.2
	13	4.8		73	3.2
				107	4.1
				108	4.0
				109	3.2
IC1303	1	4.5		111	1.8
	5	8.0		112	3.2
	9	3.2			
	10	4.2			
	11-12	3.0			
IC1304	3	0.4	IC1402	115	1.7
	4	2.6		118	2.3
	5-6	3.8		119-121	3.3
	7	2.2		124	1.7
	8	0.1		128-129	3.3
	9	0.2		131	0.9
	10	2.0		1	4.8
	11	3.0		2	2.4
	12	2.6		3	4.0
	13	2.3		4	4.8
	15	2.3		5-6	2.4
	16	0.2		9	4.5
	17	2.5		10	4.8
	19	2.8		11	2.4
	20	3.0		12	4.0
	21	2.7		13-14	4.8
	22	3.6	IC1403	4	1.4
	26	3.6		21	1.8
	27	8.8		22	4.8
	28	3.4		24	4.8
	30	3.6		37	4.8
	31-32	4.0			
IC1401	1	3.2			
	7	0.2			
	8	2.2			
	10	2.8			
	13	5.0			
	15	5.0			
	16-17	3.2			
	18-19	1.7			
	20	1.4			
	23	1.4			
	25	1.4			
	26	0.9			
	27	3.2			
	28	4.5			
	29	0.2			
	30	4.1			
	31	0.1			
	34	1.4			
	36	1.4			

Pin No. Ref.No.	(B) Base	(C) Collector	(E) Emitter
Q1308	3.3	8.8	2.7
Q1309	0	7.6	0
Q1310	7.6	8.8	6.9
Q1311	3.3	7.6	2.8
Q1313	0.2	8.8	0.8
Q1314	4.1	0.2	0
Q1315	0	4.4	0
Q1401	1.0	0	1.7
Q1402	1.0	0	1.4
Q1403	1.0	3.3	1.4
Q1404	3.3	8.8	4.0
Q1405	4.0	0	4.5





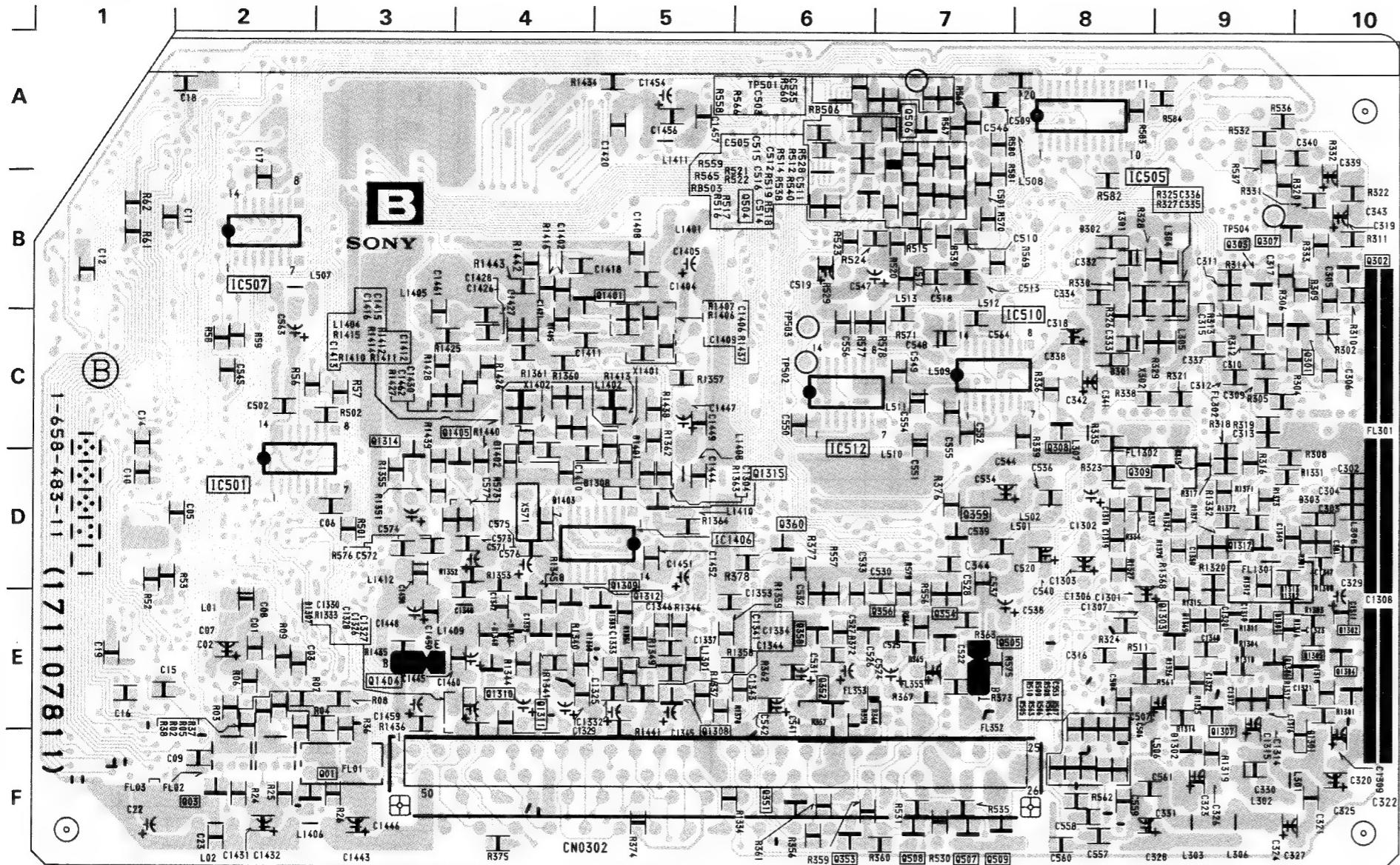
B (3/3) { DIGITAL
DIGITAL
PICTURE



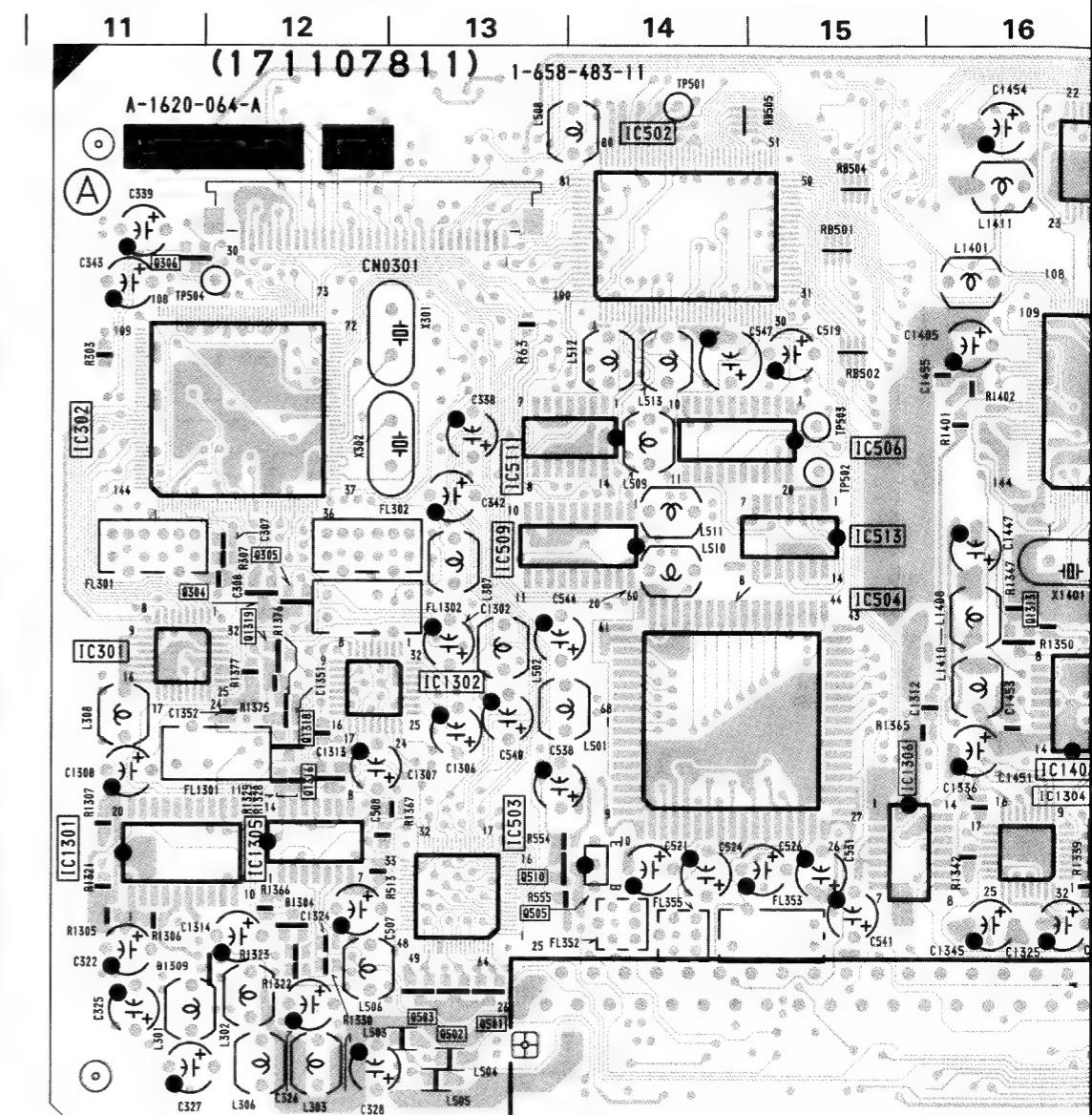
B (3/3) { DIGITAL COMB.
DIGITAL NOISE REDUCER,
PICTURE IN PICTURE }

B DIGITAL COMB, DIGITAL NOISE REDUCER,
PICTURE IN PICTURE

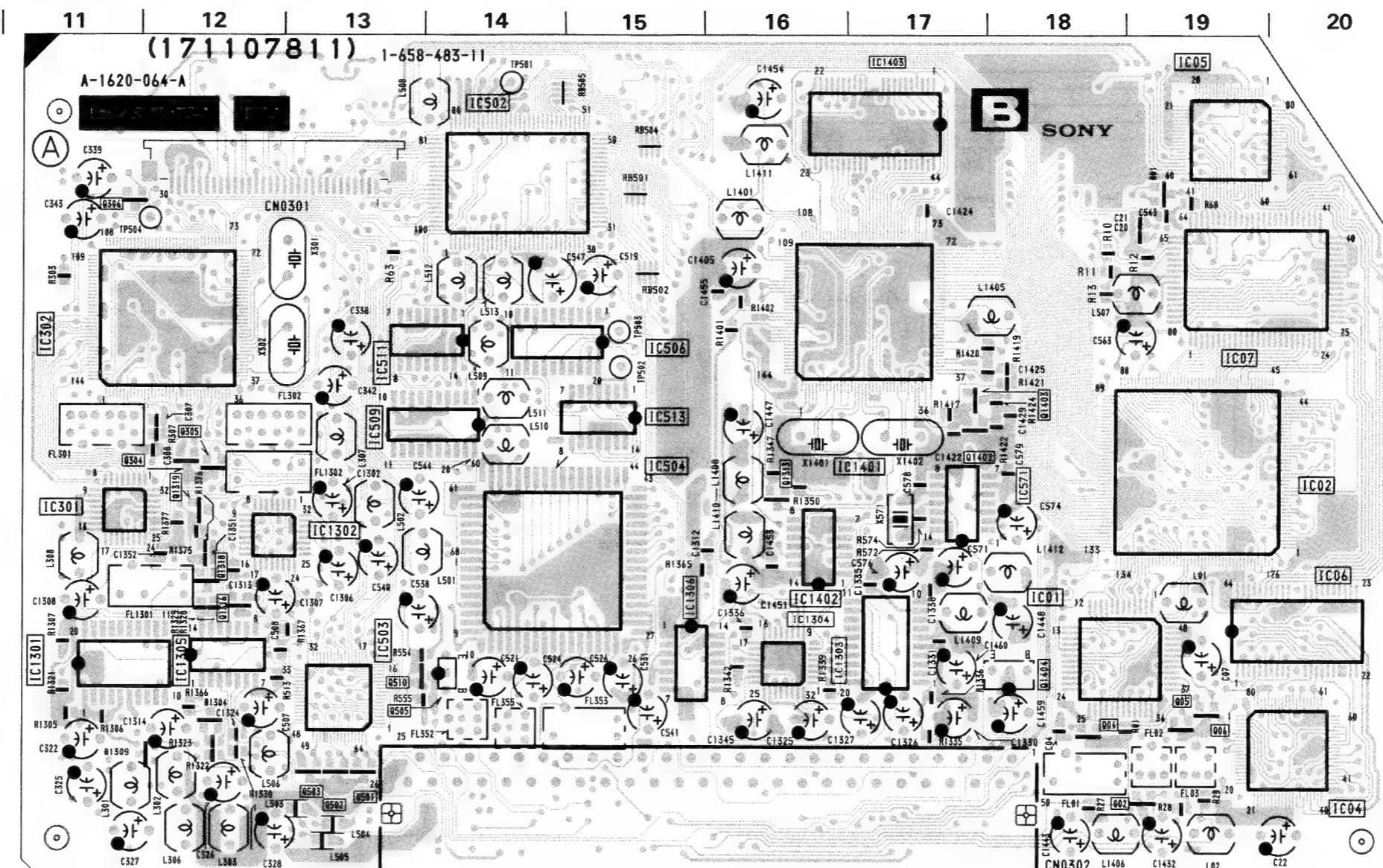
— B Board — <Conductor Side>



— B Board — <Component Side>



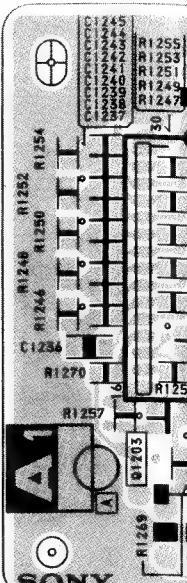
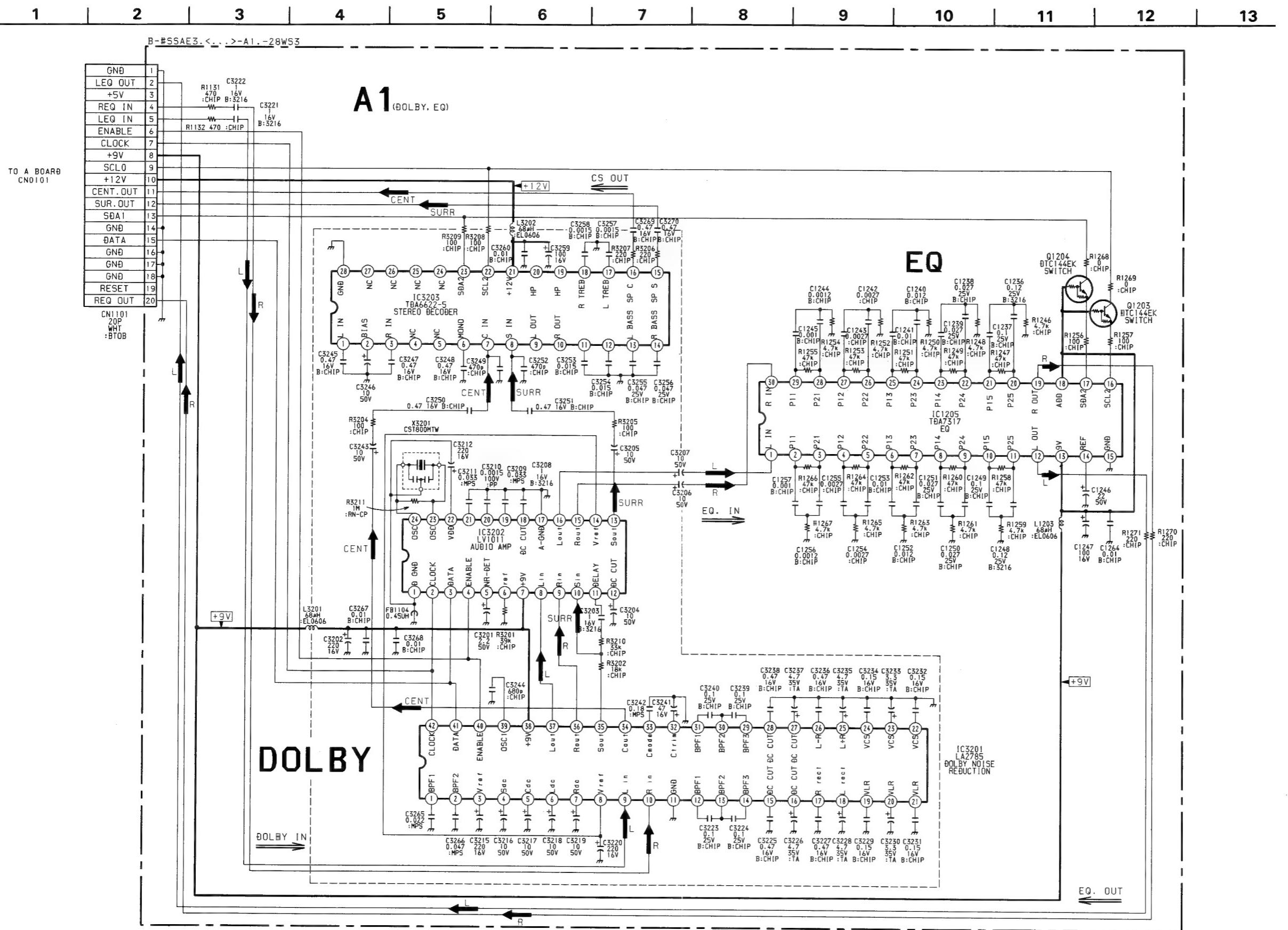
— B Board — <Component Side



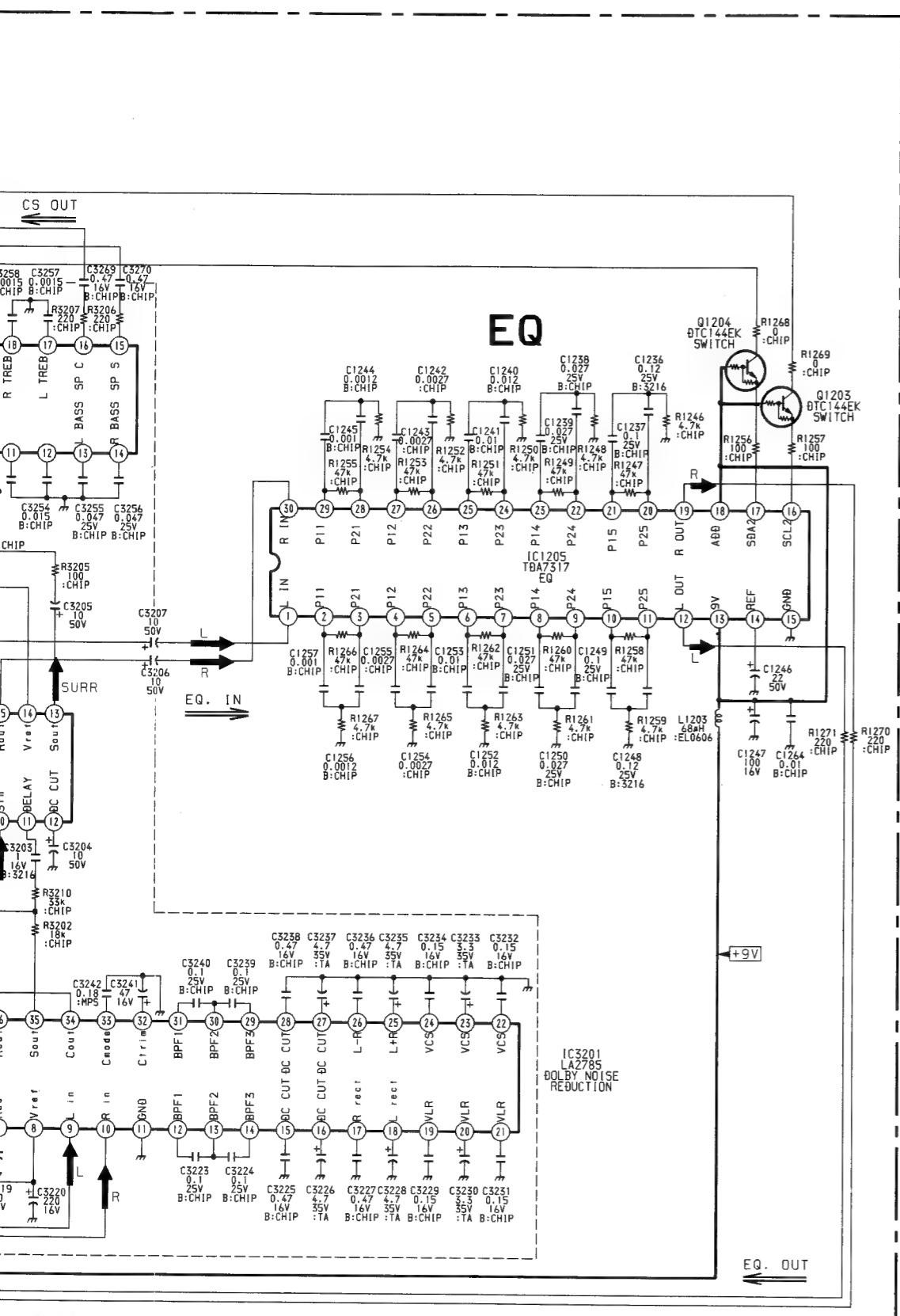
IC		Q359 D-7	
IC01	D-18	Q360	D-6
IC02	D-20	Q501	F-13
IC04	F-20	Q502	F-13
IC05	A-19	Q503	F-13
IC06	D-20	Q504	B-6
IC07	C-19	Q505	E-7
IC301	D-11	Q507	F-7
IC302	C-11	Q508	F-7
IC501	D-2	Q509	F-7
IC502	A-14	Q510	E-13
IC503	E-13	Q1301	E-9
IC504	D-15	Q1302	E-10
IC505	A-8	Q1303	E-9
IC506	C-15	Q1304	E-10
IC507	B-2	Q1305	E-10
IC571	D-18	Q1306	E-10
IC1301	E-11	Q1307	E-9
IC1302	D-13	Q1308	E-5
IC1303	E-17	Q1309	D-4
IC1304	E-16	Q1310	E-4
IC1305	E-12	Q1311	E-4
IC1306	D-15	Q1312	D-5
IC1401	D-17	Q1313	D-16
IC1402	D-16	Q1314	C-3
IC1403	A-17	Q1315	D-6
IC1406	D-5	Q1316	E-12
TRANSISTOR		Q1317	D-9
		Q1318	D-12
		Q1319	D-12
Q01	F-3	Q1401	B-5
Q02	F-19	Q1402	C-18
Q03	F-2	Q1403	C-18
Q04	E-18	Q1404	E-3
Q05	E-19	Q1405	C-4
Q06	E-19	DIODE	
Q301	C-10	D01	A-19
Q302	B-10	D301	C-8
Q303	B-9	D302	B-8
Q304	D-12	D303	D-10
Q305	C-12	D1301	E-10
Q306	B-11	D1302	F-9
Q307	B-9	D1303	E-5
Q308	C-8	D1304	E-12
Q309	D-8	D1307	E-2
Q351	F-6	D1308	D-5
Q352	E-6	D1309	F-11
Q353	F-6	D1401	C-5
Q354	E-7	D1402	C-4
Q356	E-7	D1403	D-4
Q358	E-6		

A1

[DOLBY, A1 Board]

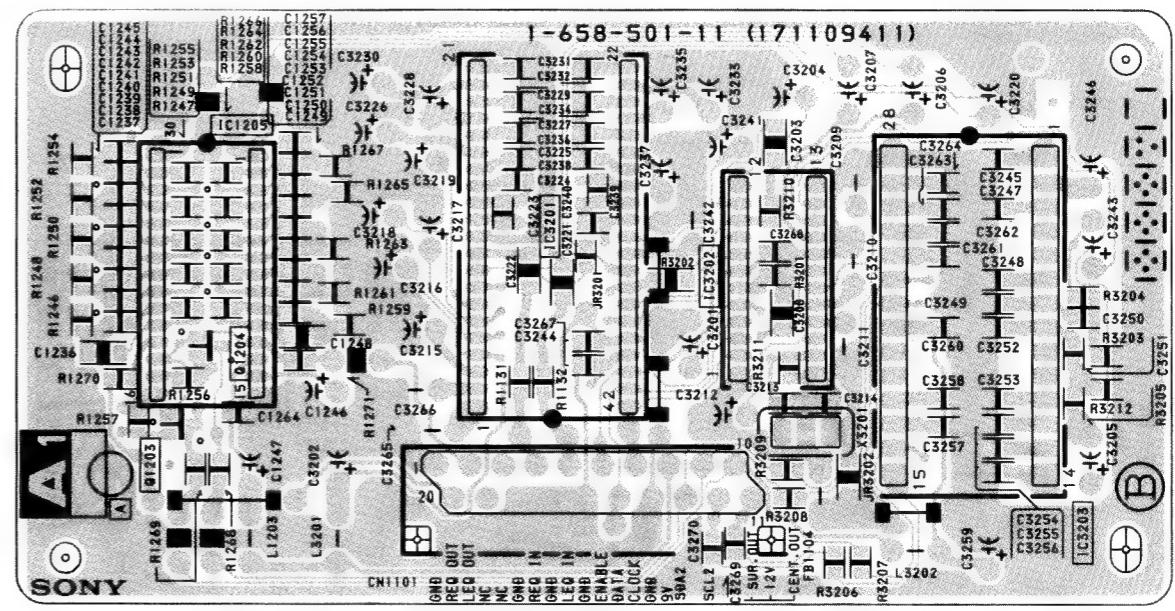


7 | 8 | 9 | 10 | 11 | 12 | 13



A1
[DOLBY,EQ]

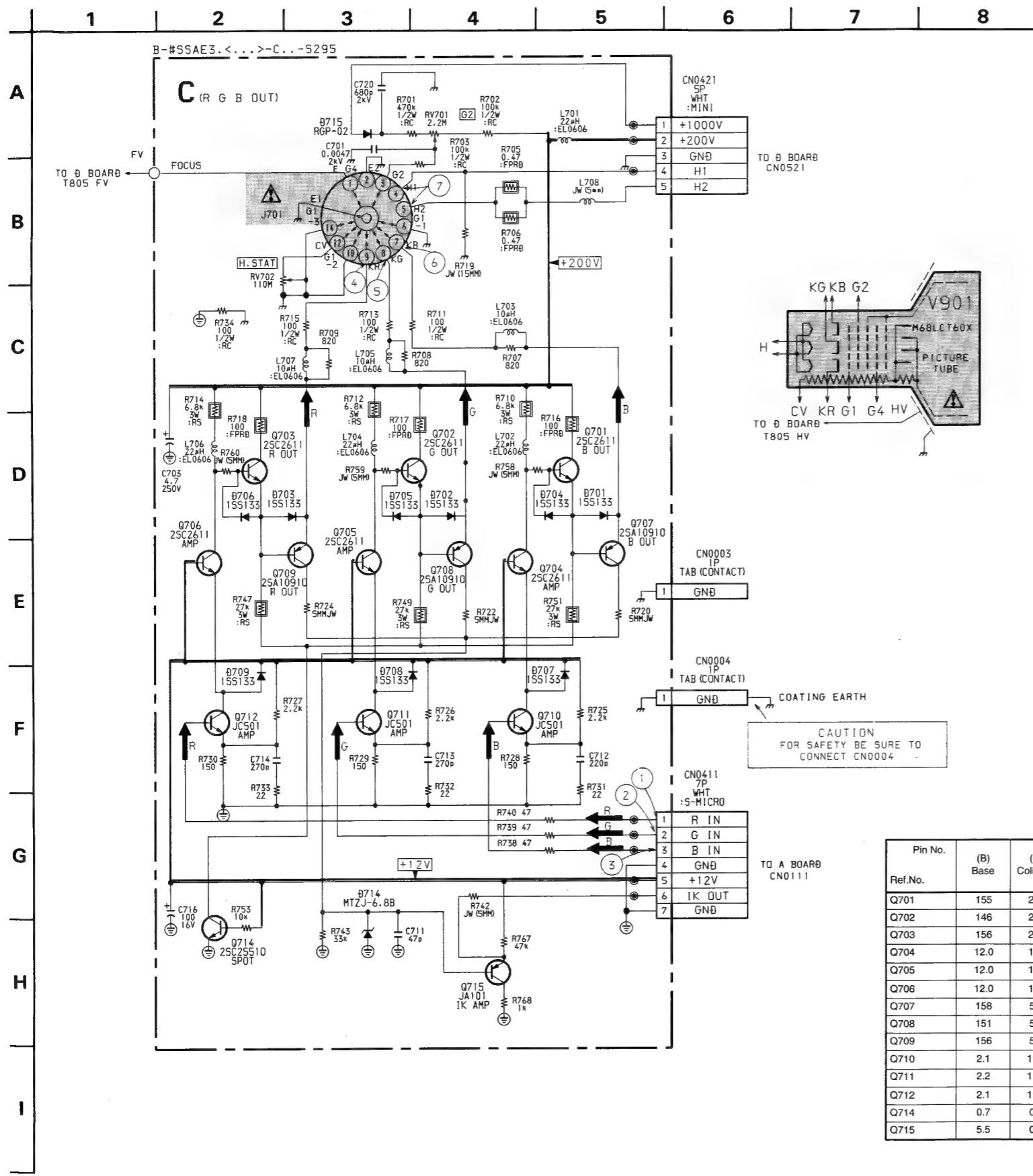
—A1 Board—



Ref.No.	Pin No.	Voltage (V)
IC3201	1-10	4.4
	12-15	4.4
	16	5.1
	17	4.4
	18	5.1
	19-21	4.4
	22-24	2.3
	25	5.2
	26	4.3
	27	5.0
	28-37	4.3
	38	8.6
	40	4.8
	41	4.0
	42	5.0

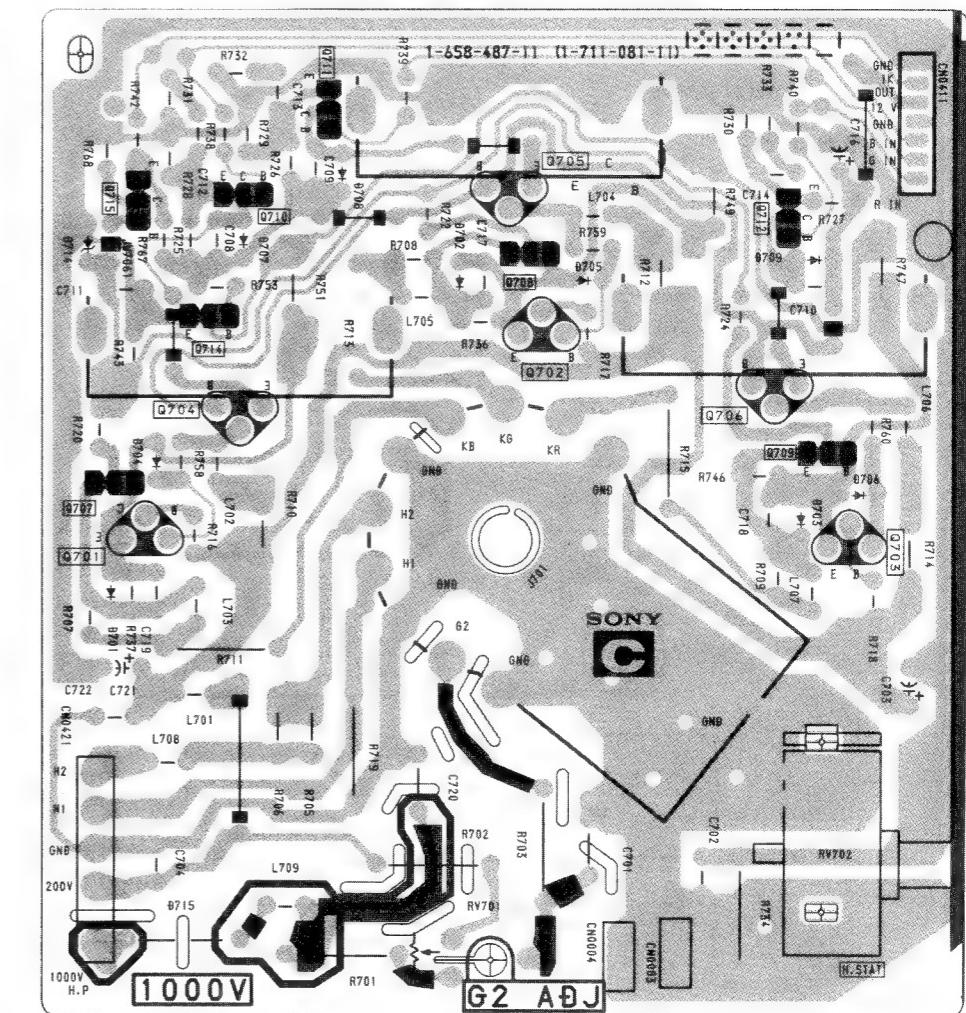
Ref.No.	(B) Base	(C) Collector	(E) Emitter

<tbl_r cells="4" ix="3" maxcspan

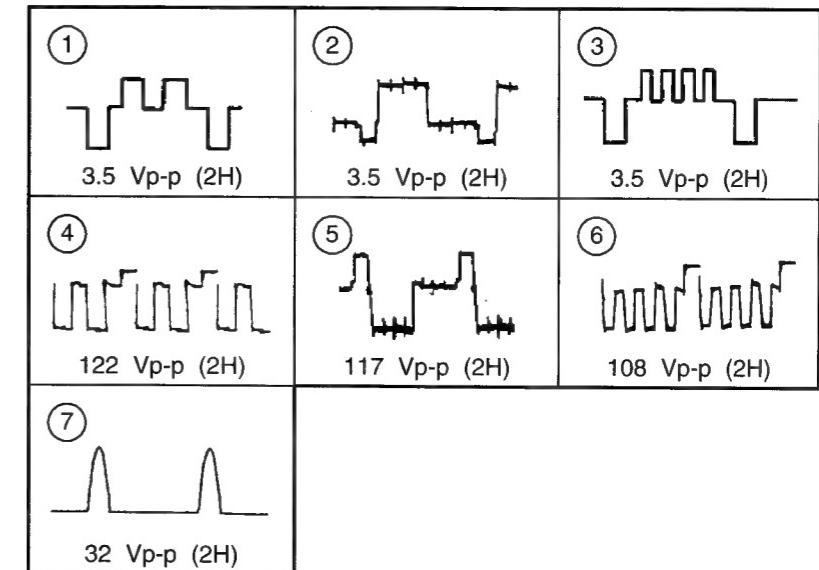


C [RGB OUT]

— C Board —



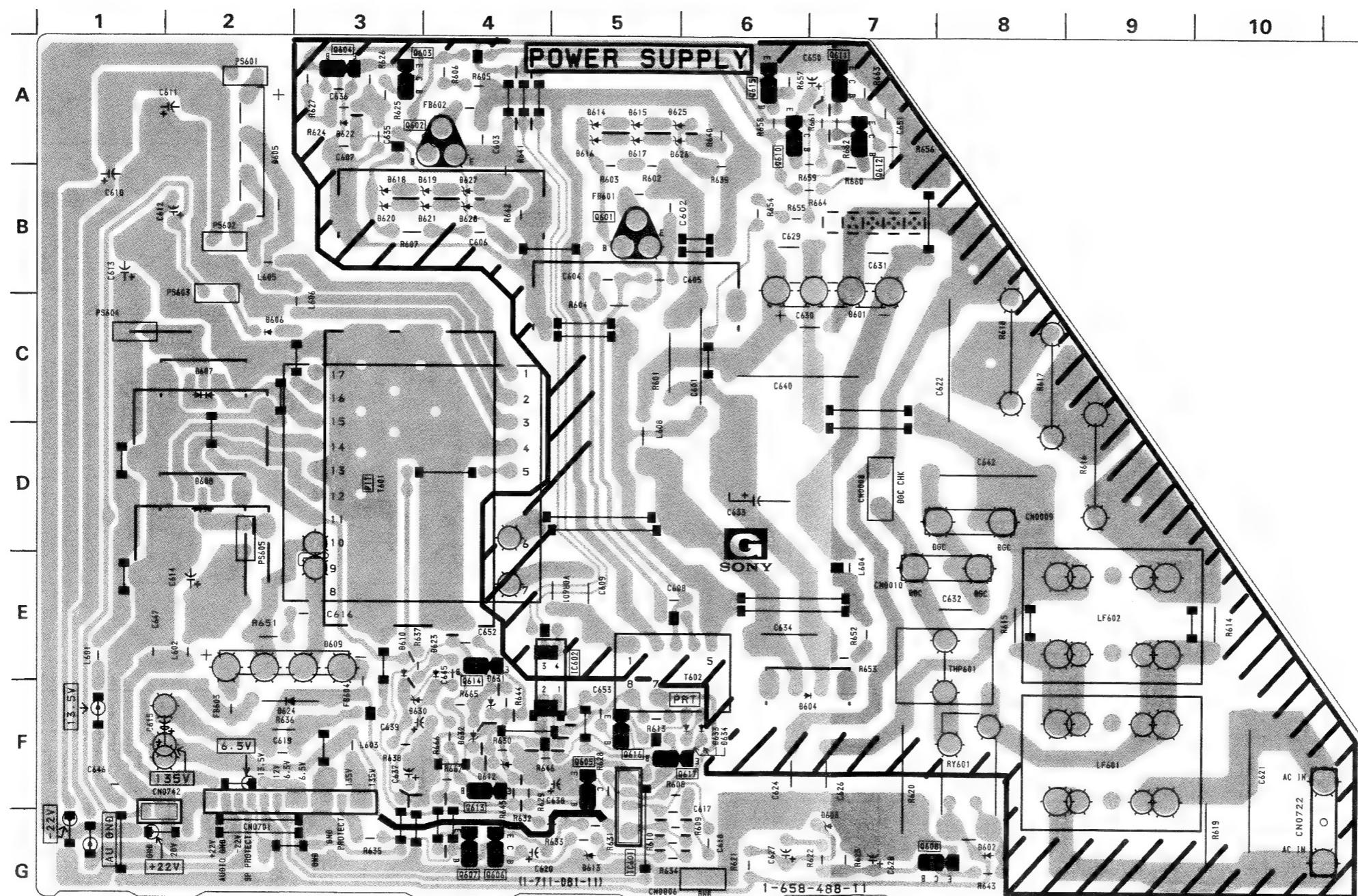
WAVEFORMS C BOARD



G

[POWER SUPPLY]

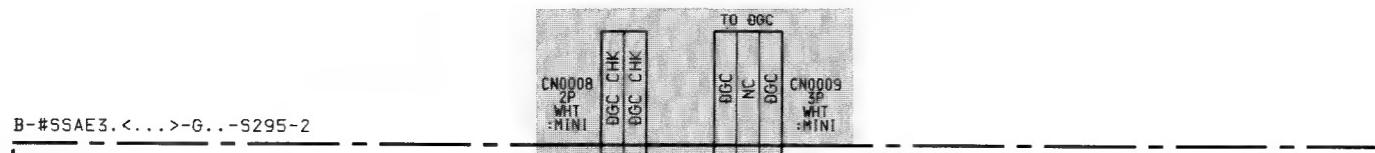
— G Board —



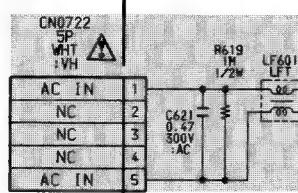
G BOARD	
IC	
IC601	G-5
IC602	E-5
TRANSISTOR	
Q601	B-5
Q602	A-3
Q603	A-3
Q604	A-3
Q605	F-5
Q606	G-4
Q607	G-4
Q608	G-7
Q610	A-6
Q611	A-7
Q612	A-7
Q613	F-4
Q614	E-4
Q615	A-6
Q616	F-5
Q617	F-6
DIODE	
D601	C-7
D602	G-8
D603	F-7
D605	A-2
D607	C-2
D608	D-2
D609	E-3
D610	E-3
D612	F-4
D613	G-5
D614	A-5
D615	A-5
D616	A-5
D617	A-5
D618	B-3
D619	B-4
D620	B-3
D621	B-4
D622	A-3
D623	E-4
D624	F-2
D625	A-5
D626	A-5
D627	B-4
D628	B-4
D630	F-3
D631	E-4
D633	F-6

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

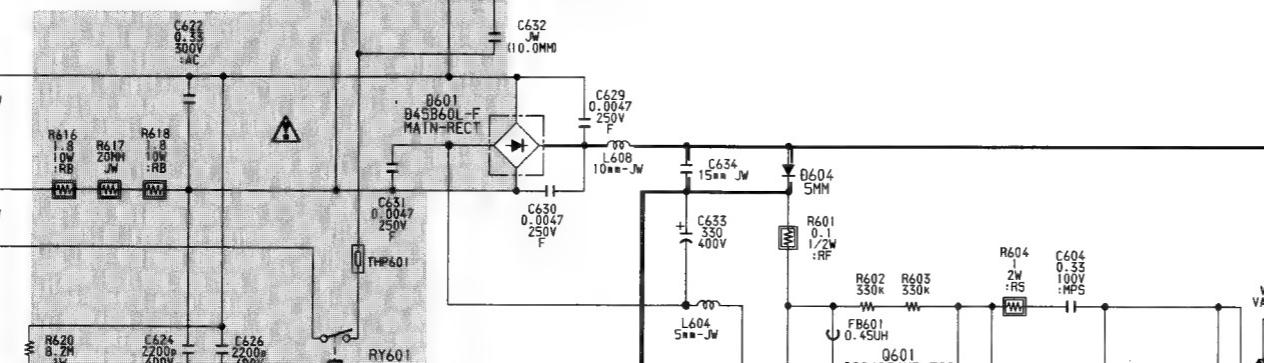
A



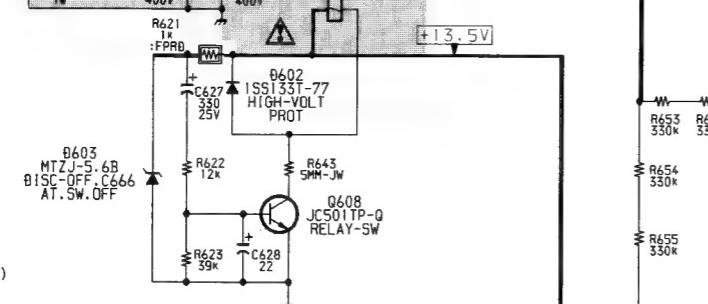
B



C



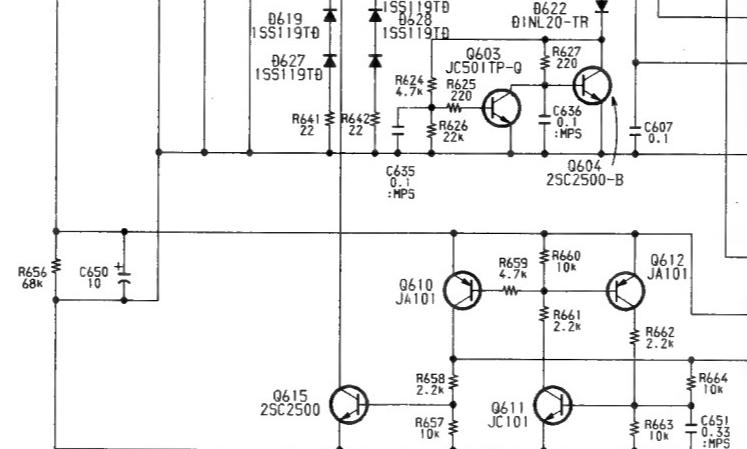
D



E

G
(POWER SUPPLY)

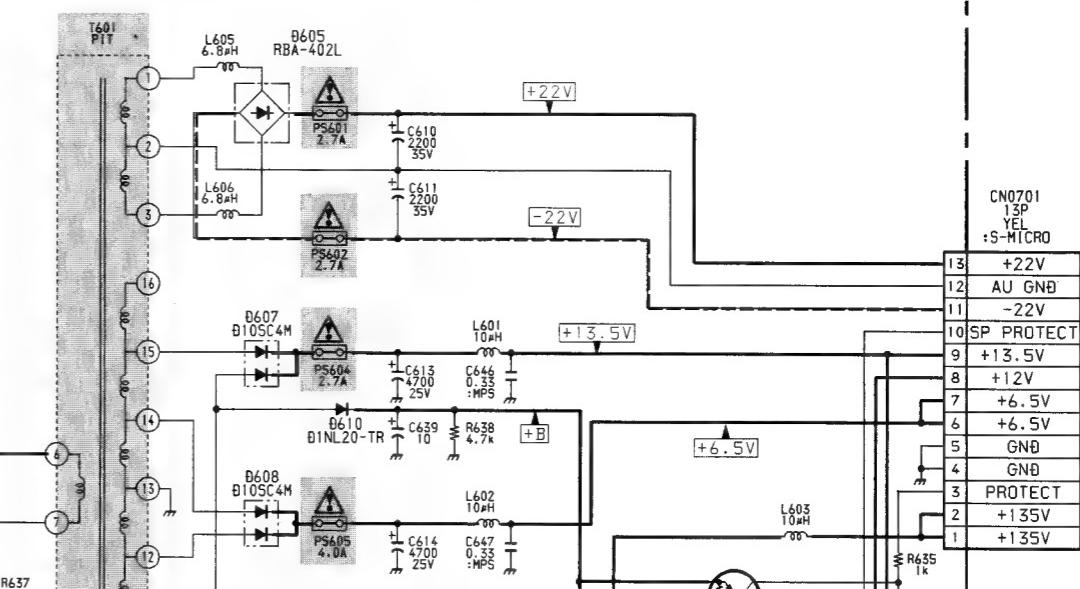
F



G

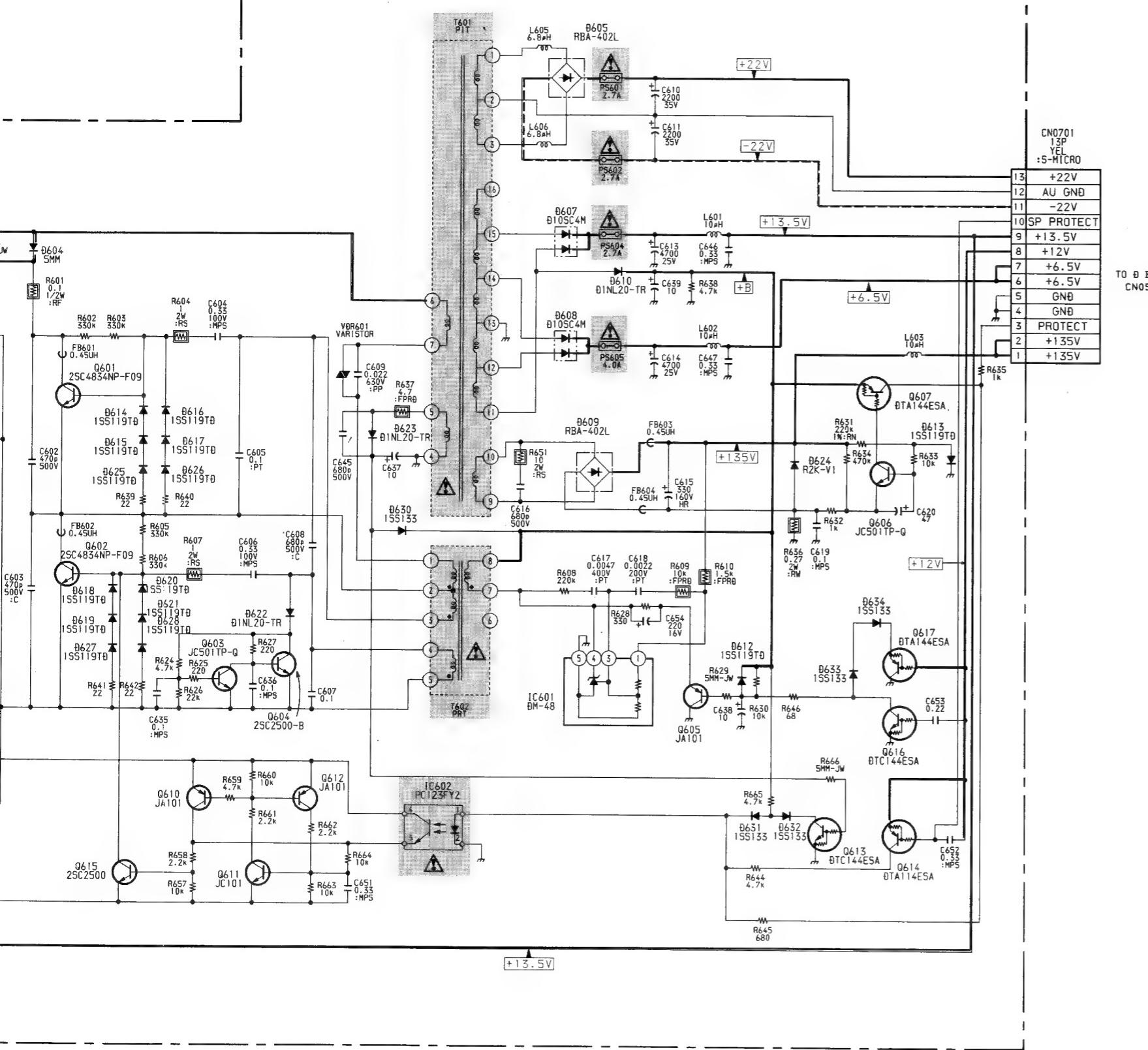


H

TO B BOARD
CN0501

CN0701	13P
YEL	
S-MICRO	
13	+22V
12	AU GND
11	-22V
10	SP PROTECT
9	+13.5V
8	+12V
7	+6.5V
6	+6.5V
5	GND
4	GND
3	PROTECT
2	+135V
1	+135V

7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

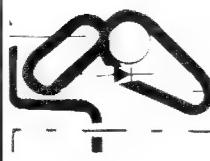
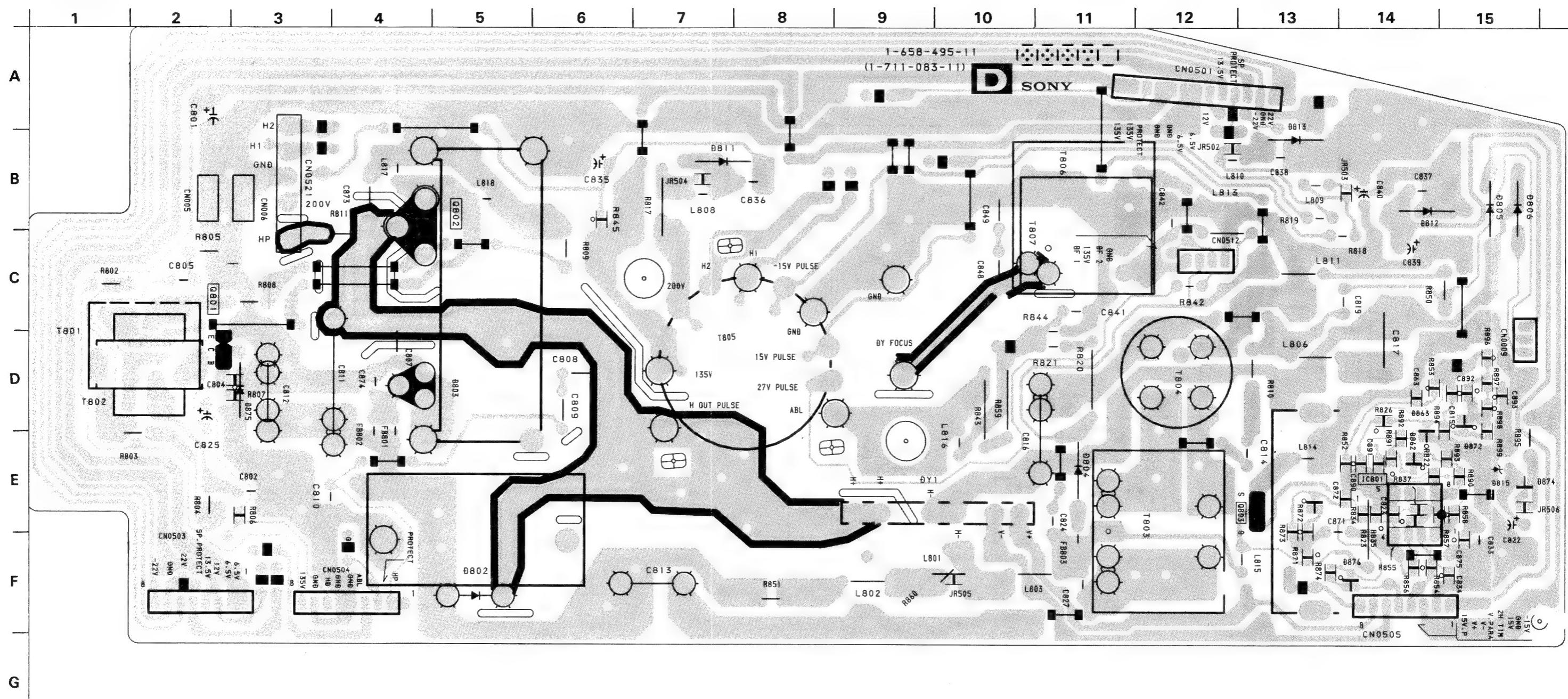


Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q601	-1.3	84.5	-0.1
Q602	-86	-0.1	-85
Q603	-84.5	-84.8	-85
Q604	-85.0	-84.3	-85
Q605	13.3	0	10.7
Q606	0.4	13.2	0.2
Q607	13.2	0	13.2
Q608	0	13.5	-0.1
Q610	5.6	1.8	28.0
Q611	-0.8	22.6	-84.0
Q613	9.2	-0.1	0
Q614	13.2	0.4	13.2
Q615	-85.2	-85.0	-84.0
Q616	-0.1	13.3	-0.1

D

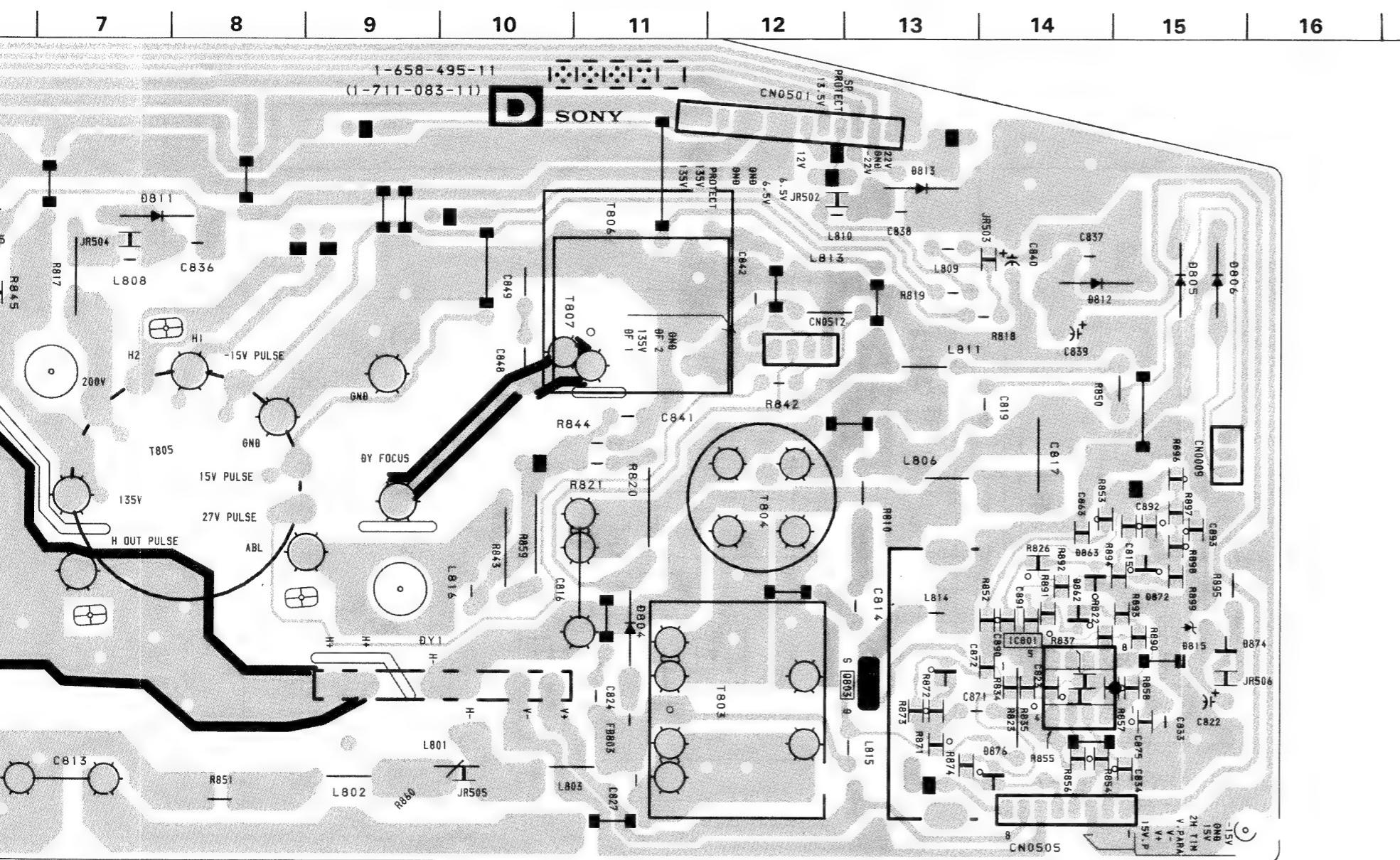
[H OUT, PIN CORRECT]

— D Board —



NOTE

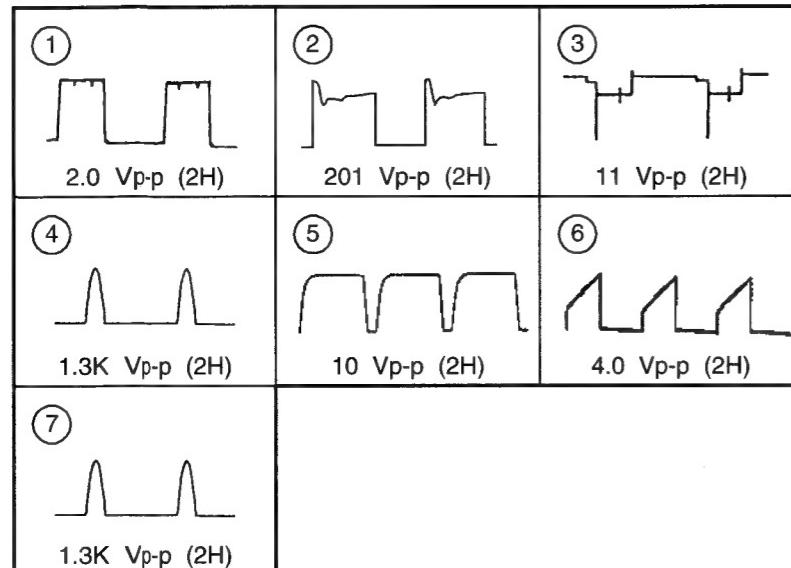
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock during inspection or repairing.



D BOARD

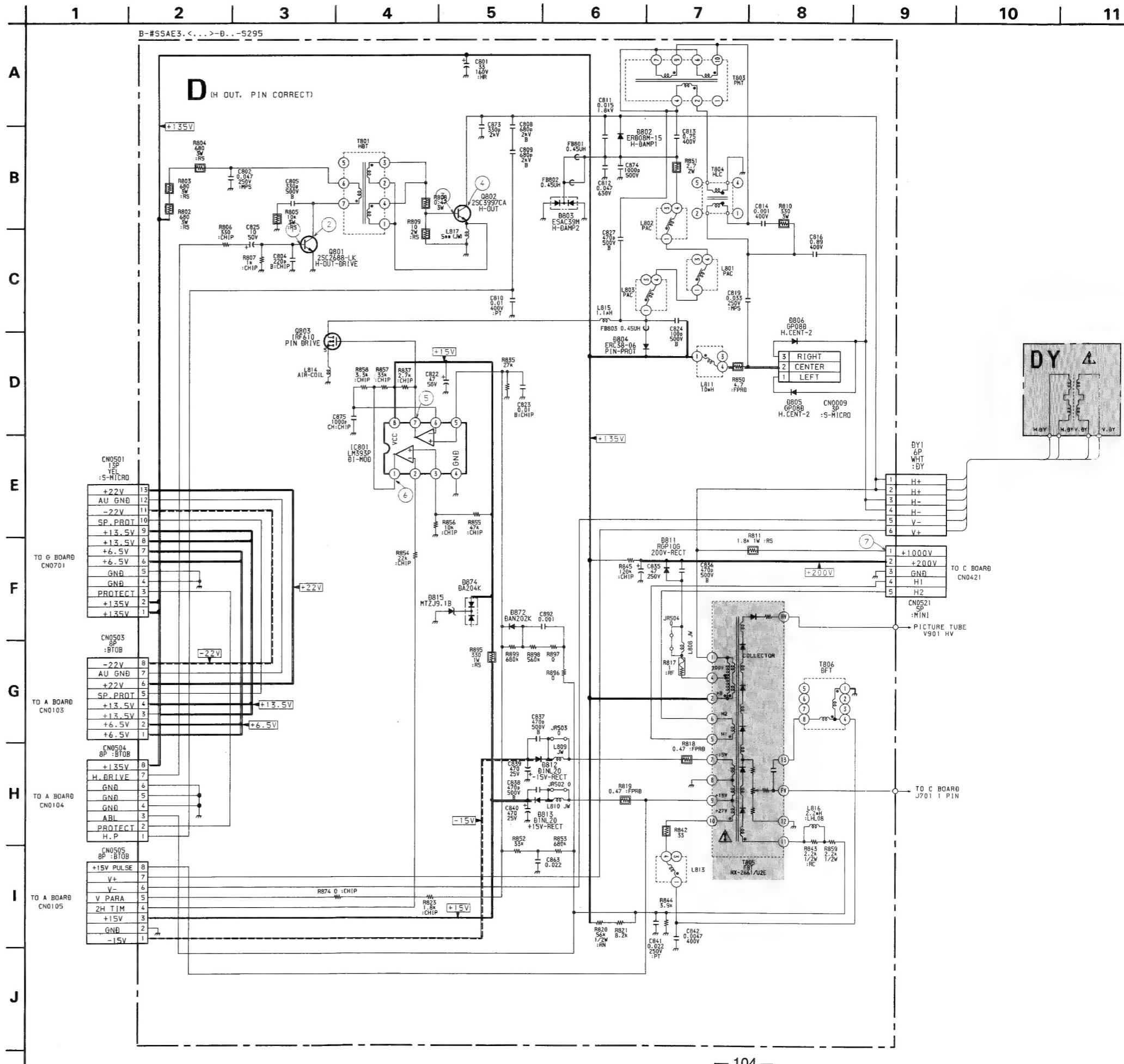
	IC
IC801	E-14
TRANSISTOR	
Q801	C-2
Q802	B-5
Q803	E-13
DIODE	
D802	F-5
D803	D-5
D804	E-11
D805	B-15
D806	B-15
D811	B-7
D812	B-14
D813	A-13
D815	E-15
D872	E-15
D874	E-15

WAVEFORMS D BOARD



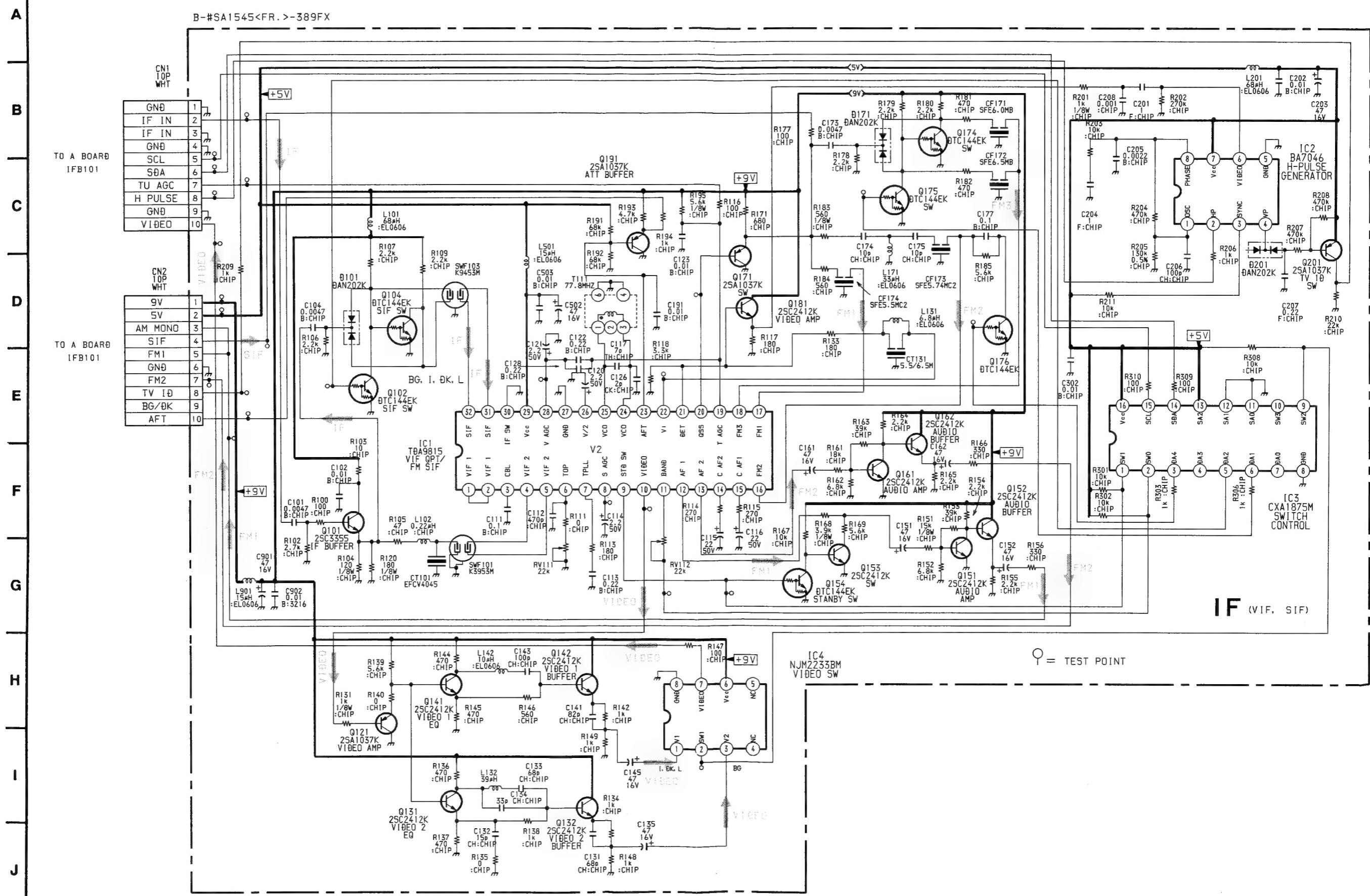
Ref. No.	Pin No.	Voltage (V)
IC801	1	1.2
	2	1.8
	3	1.6
	5	2.6
	6	1.2
	7	7.5
	8	9.5

Pin No.	(B) Base	(C) Collector	(E) Emitter
Ref.No.			
Q801	-0.5	109	0
Q803	7.5	23.5	0



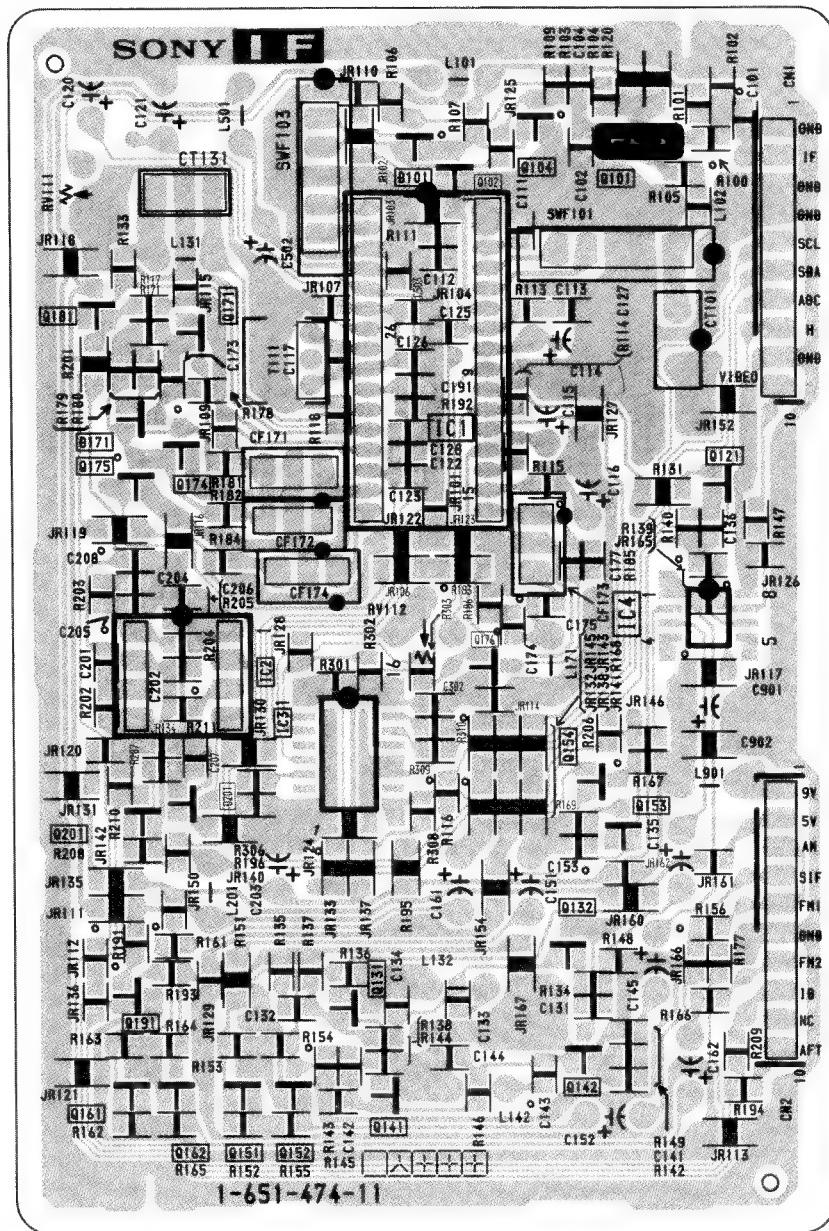
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

IFH-389FX (KV-S2953B ONLY)



IF

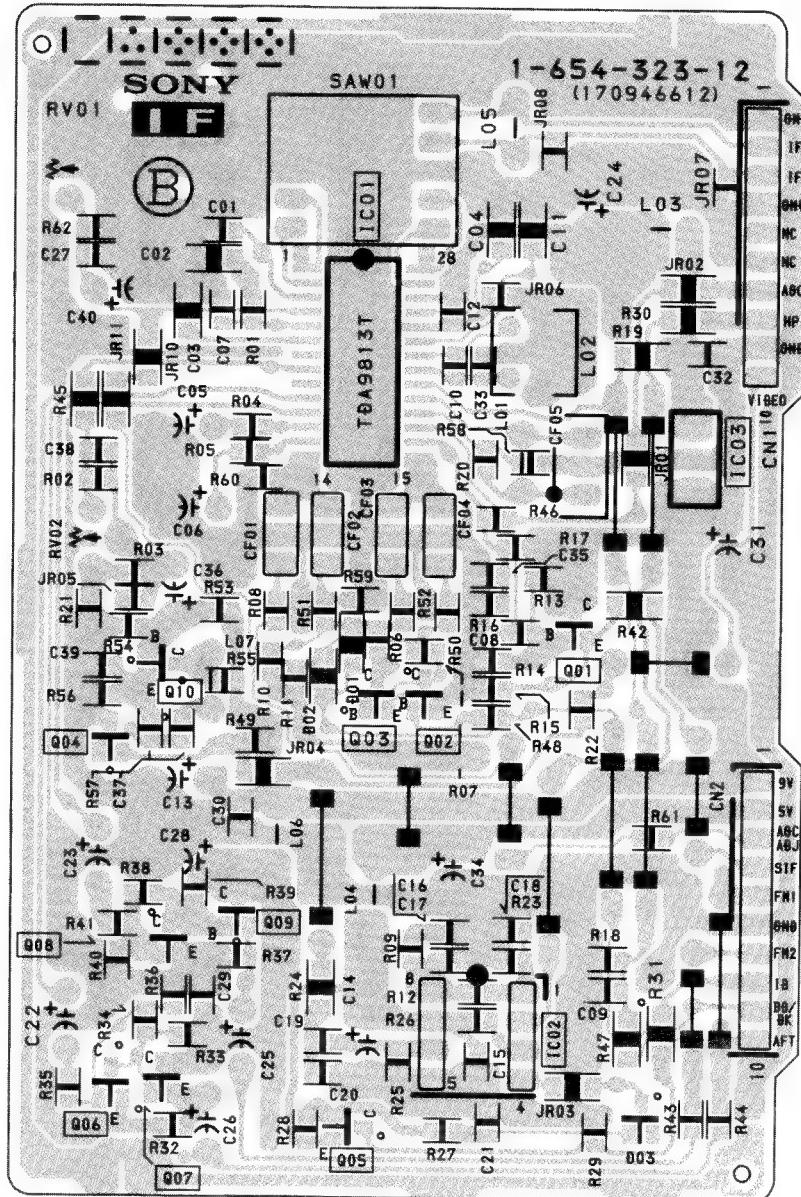
[VIF, SIF]

— IF Board — (KV-S2953B ONLY)

IF

[VIF, SIF]

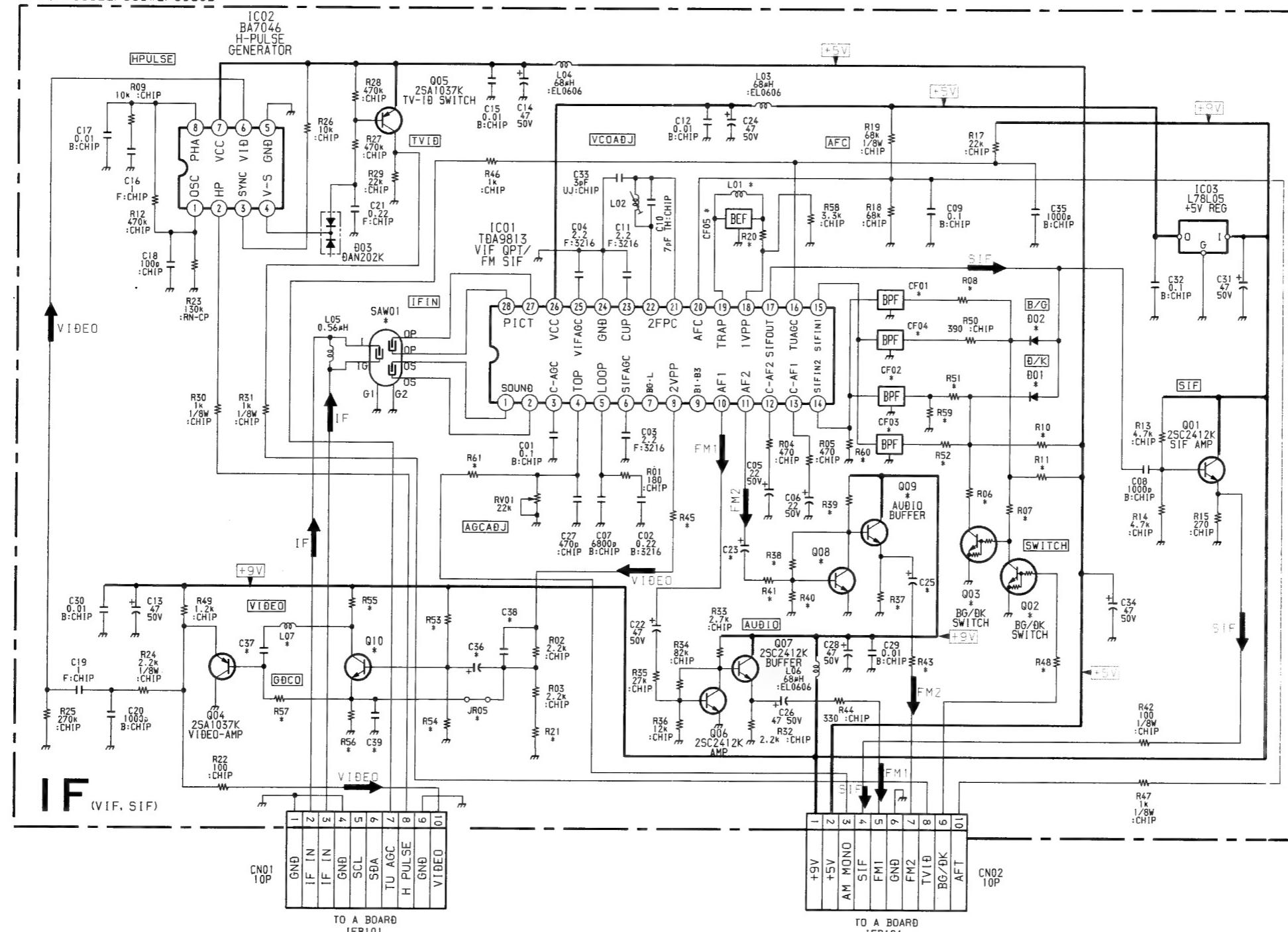
— IF Board — (KV-S2951A, 1D, 3E, 1K, 2U, ONLY)



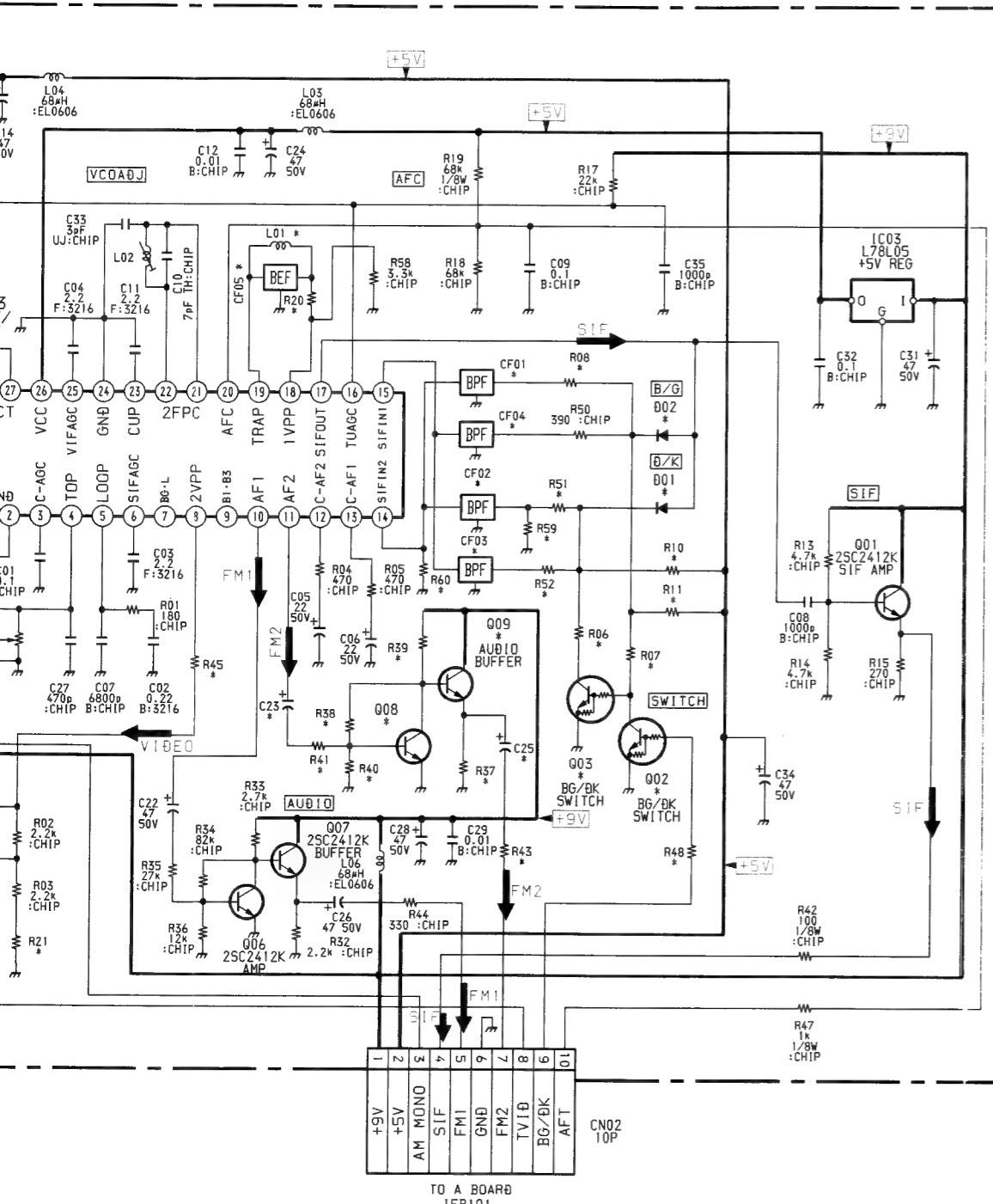
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

IFH-389WE (KV-S2951A, 1D, 3E ONLY)
IFH-389EE (KV-S2951K, ONLY)
IFH-395GB (KV-S2952U ONLY)

B-# IFH389EE/389WE/395GB



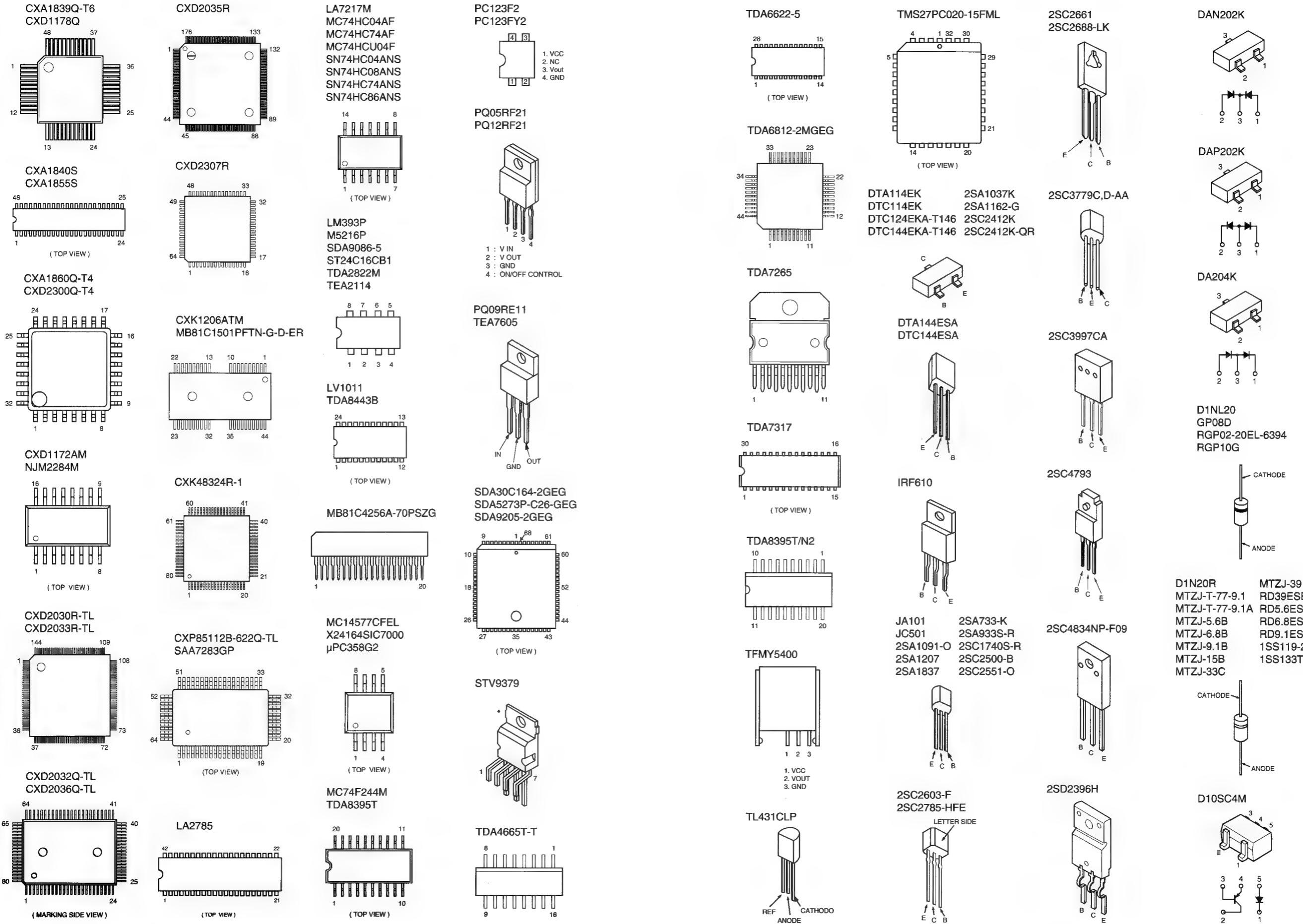
6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15



IF BOARD * MARK

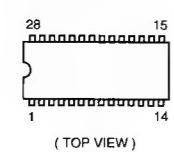
Ref. No.	S2951A	S2951D	S2953E	S2951K	S2952U
C23	47MF 50V	47MF 50V	47MF 50V	47MF 50V	-
C25	47MF 50V	47MF 50V	47MF 50V	47MF 50V	-
C36	-	-	-	220MF 6.3V	-
C37	-	-	-	82PF	-
C38	27PF	27PF	27PF	33PF	47PF
C39	-	-	-	15PF	-
CF01	5.74MHz	5.74MHz	5.74MHz	5.74MHz	-
CF02	-	-	-	6.25MHz	-
CF03	6.5MHz	6.5MHz	6.5MHz	6.5MHz	-
CF04	5.5MHz	5.5MHz	5.5MHz	5.5MHz	6.0MHz
CF05	5.5MHz	5.5MHz	5.5MHz	5.5MHz	6.0MHz
D01	MA73-TX	MA73-TX	MA73-TX	MA73-TX	-
D02	MA73-TX	MA73-TX	MA73-TX	MA73-TX	0 : CHIP
L01	10UH	10UH	10UH	10UH	8.2UH
L07	-	-	-	8.2UH	-
Q02	DTC144EK	DTC144EK	DTC144EK	DTC144EK	-
Q03	DTC144EK	DTC144EK	DTC144EK	DTC144EK	-
Q08	2SC2412K	2SC2412K	2SC2412K	2SC2412K	-
Q09	2SC2412K	2SC2412K	2SC2412K	2SC2412K	-
Q10	-	-	-	2SC2412K	-
JR5	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
R06	5.6K	5.6K	5.6K	5.6K	-
R07	5.6K	5.6K	5.6K	5.6K	-
R08	390	390	390	390	-
R10	22K	22K	22K	22K	-
R11	22K	22K	22K	22K	-
R20	220	220	220	180	180
R21	1K	1K	1K	3.3K	1.8K
R37	2.2K	2.2K	2.2K	2.2K	-
R38	82K	82K	82K	82K	-
R39	2.7K	2.7K	2.7K	2.7K	-
R40	12K	12K	12K	12K	-
R41	27K	27K	27K	27K	-
R43	330	330	330	330	-
R45	1K	1K	1K	680	1K
R48	1K	1K	1K	1K	-
R51	-	-	-	390	-
R52	390	390	390	390	-
R53	-	-	-	27K	-
R54	-	-	-	12K	-
R55	-	-	-	680	-
R56	-	-	-	680	-
R57	0 : CHIP	0 : CHIP	0 : CHIP	560	0 : CHIP
R59	-	-	-	470	-
R60	-	-	-	-	5.6K
R61	100	100	100	-	100
SAW01	K3350	K3350	K3350	K3350	J3352K

5-4. SEMICONDUCTORS

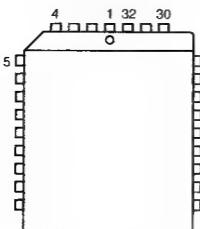
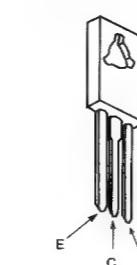


1. VCC
2. NC
3. Vout
4. GND

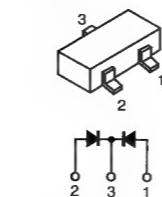
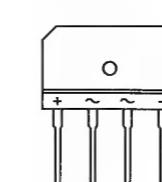
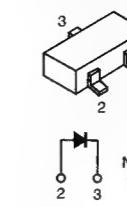
TDA6622-5



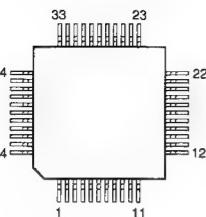
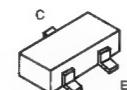
TMS27PC020-15FML

2SC2661
2SC2688-LK

DAN20K

D4SB60L
RBA-402LMA3039H
MA3051M-TX
MA3056M
MA3082M-TX
MA3091
RB411D
RD5.1M-B2
RD5.6M-B2

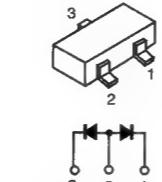
TDA6812-2MGE

DTA114EK
DTC114EK
DTC124EKA-T146
DTC144EKA-T146
2SA1037K
2SA1162-G
2SC2412K
2SC2412K-QR

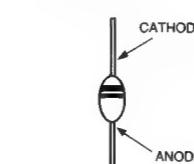
2SC3779C,D-AA



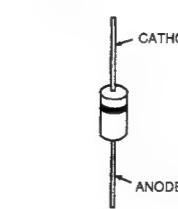
DAP20K



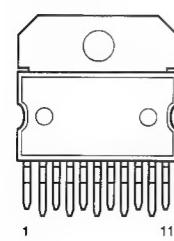
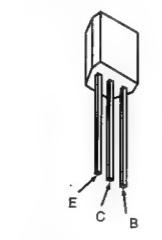
ERC38-06



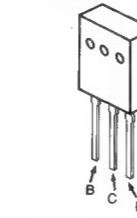
R2K-V1



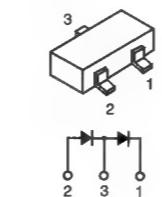
TDA7265

DTA144ESA
DTC144ESA

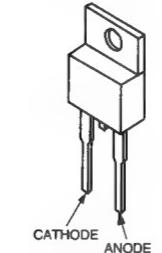
2SC3997CA



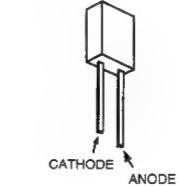
DA204K



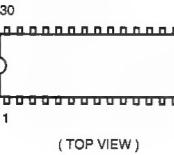
ERD08M-15



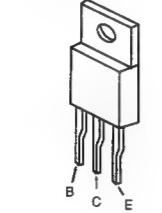
LD201VR



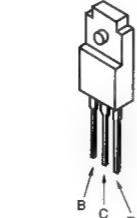
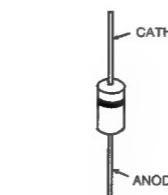
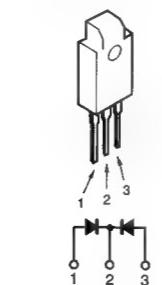
TDA7317



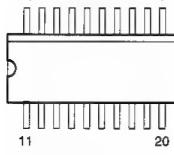
IRF610



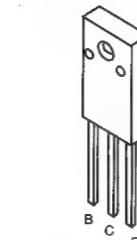
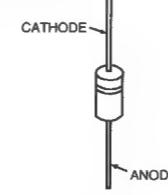
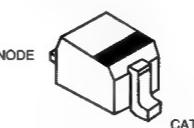
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GP08D
RGP02-20EL-6394
RGP10GESAC39M-06CF38
ESAD39M-06C

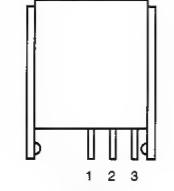
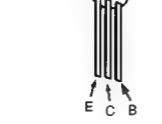
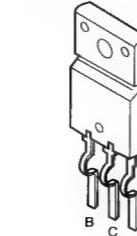
TDA8395T/N2

JA101
JC501
2SA1091-O
2SA1207
2SA1837
2SA733-K
2SA933S-R
2SC1740S-R
2SC2500-B
2SC2551-O

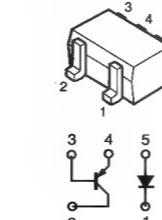
2SC4834NP-F09

D1N20R
MTZJ-39
MTZJ-T-77-9.1
MTZJ-T-77-9.1A
MTZJ-5.6B
MTZJ-6.8B
MTZJ-9.1B
MTZJ-15B
MTZJ-33CHVU359TRF
MA110
1SV214

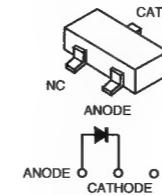
TFMY5400

1. VCC
2. VOUT
3. GND2SC2603-F
2SC2785-HFE

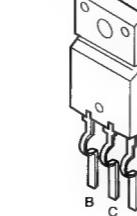
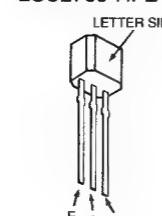
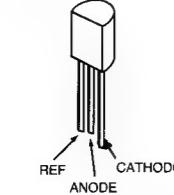
2SD2396H



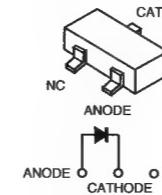
D10SC4M



TL431CLP



D10SC4M



SECTION 6

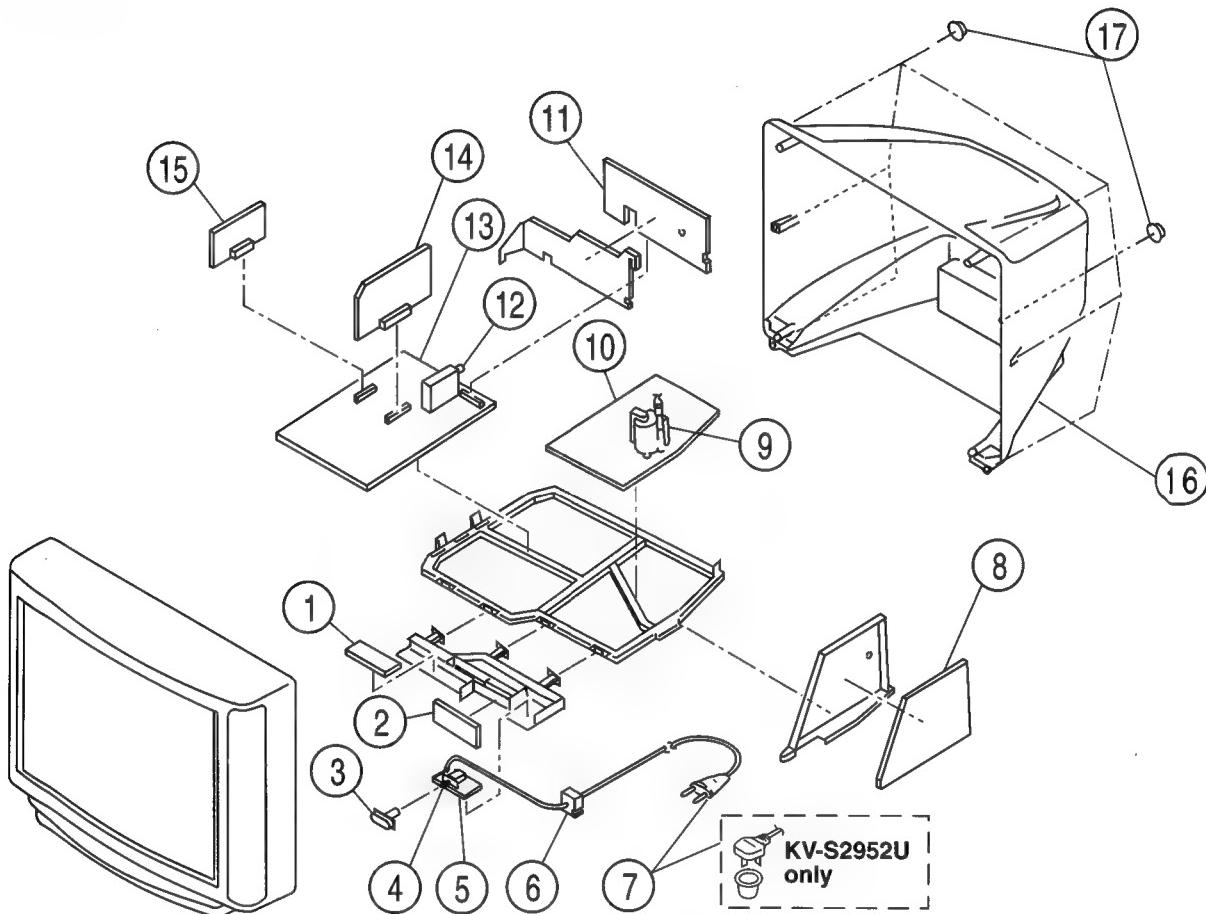
EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

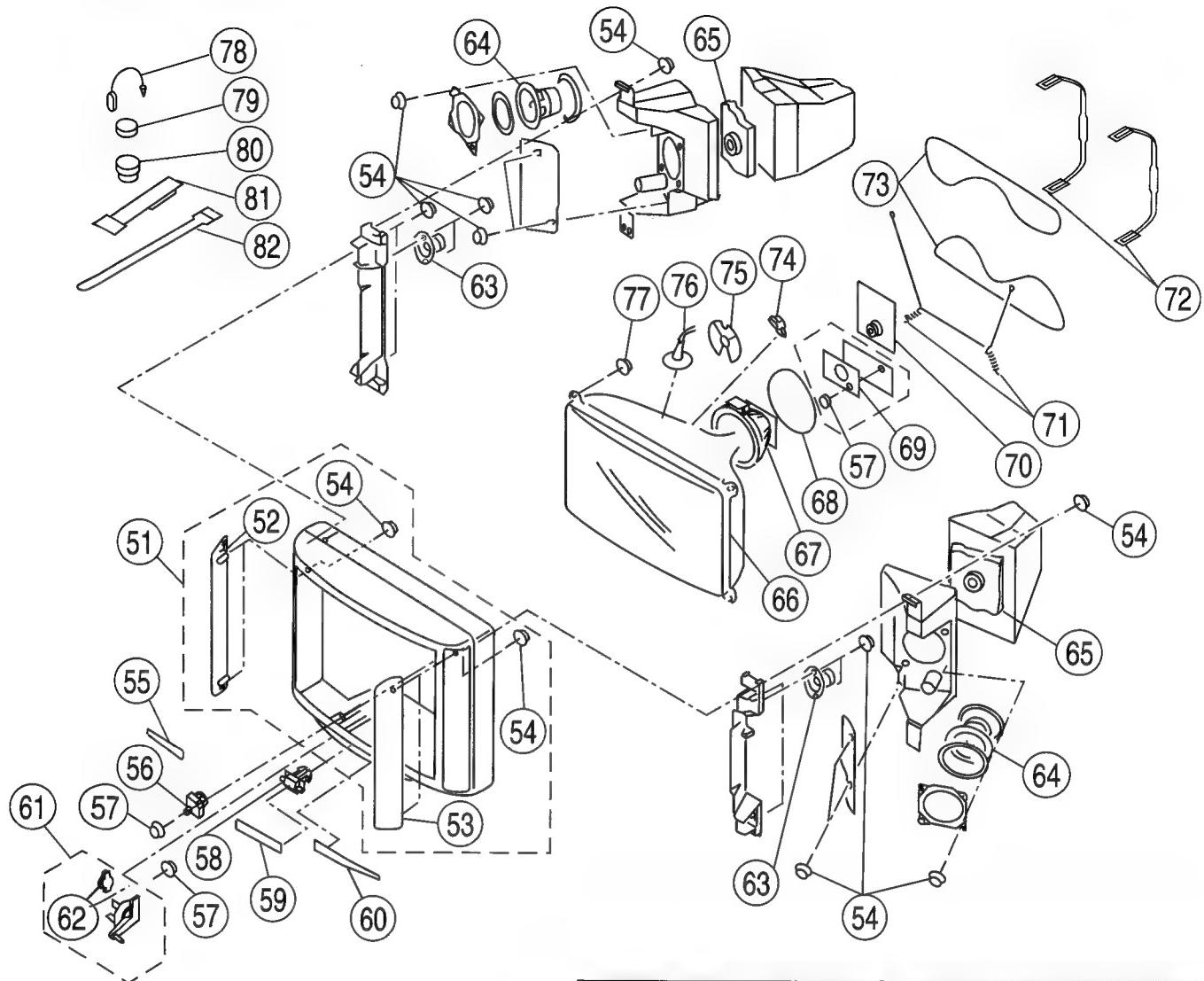
The components identified by shading and marked **A** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1646-101-A	H1 BOARD, COMPLETE		10	*A-1640-183-A	D BOARD, COMPLETE	
2	*A-1646-100-A	H2 BOARD, COMPLETE		11	*A-1651-074-A	J BOARD, COMPLETE	
3	4-202-124-01	BUTTON, POWER		12	1-693-315-11	TUNER (UV1316) (KV-S295 1A/S2953B /S2951D/S295 3E/S2951K)	
4	1-571-433-21	SWITCH, PUSH (AC POWER)			1-693-314-11	TUNER (U1344) (KV-S295 2U)	
5	*A-1624-053-A	F1 BOARD, COMPLETE		13	*A-1632-297-A	A BOARD, COMPLETE (KV-S2951A/S2951D)	
6	4-038-615-01	HOLDER, AC CORD			*A-1632-347-A	A BOARD, COMPLETE (KV-S2953 B)	
7	1-751-680-11	CORD, POWER (WITH NOISE FILTER) 2.5A/250V (KV-S2951A/S2953B/S2951D /S2953E/S2951K)			*A-1632-348-A	A BOARD, COMPLETE (KV-S295 E)	
8	1-590-762-11	CORD, POWER (WITH PLUG) 2.5A/250V (KV-S2952U)			*A-1632-349-A	A BOARD, COMPLETE (KV-S295 L K)	
9	*A-1636-010-A	G BOARD, COMPLETE		14	*A-1620-064-A	A BOARD, COMPLETE (KV-S295 U)	
	A-1-453-187-11	TRANSFORMER ASSY, FLYBACK (NY-2661/U22)		15	*A-1630-370-A	A1 BOARD, COMPLETE	
				16	4-202-146-22	COVER, REAR	
				17	4-039-358-01	SCREW (4X16), (+) BV TAPPING	

6-2. PICTURE TUBE



The components identified by shading and marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-149-1	BEZNET ASSY	52 - 54	55	3-733-856-05	PICTURE TUBE (SD-269) (K68LCT60X)	
52	4-202-629-01	GRILLE (L), SPEAKER		57	3-451-466-11	DEFLECTION YOKE (Y29GEN2B)	
53	4-202-628-01	GRILLE (R), SPEAKER		58	1-452-724-11	COIL, NO ROTATION (R1-140)	
54	4-039-358-01	SCREW (4X16), (+) BV TAPPING		69	*A-1644-065-A	VM BOARD, COMPLETE	
55	4-202-127-81	PLATE, ORNAMENTAL (KV-S2951A/S2951D/S2951K)		70	*A-1638-071-A	C BOARD, COMPLETE	
	4-202-127-91	PLATE, ORNAMENTAL (KV-S2953B/S2953E/S2952U)		71	4-369-318-51	SPRING, TENSION	
56	4-036-881-01	LOCK ASSY, DOOR		72	4-202-749-01	HOLDER, DGC (29")	
57	4-039-356-11	SCREW (3X12), (+) BV TAPPING		73	A-406-007-11	COIL, DEBRUSHING	
58	4-202-555-01	SHAFT, DOOR		74	3-704-495-01	SPACER, DY	
59	4-202-125-01	DOOR		75	*4-202-554-01	HOLDER, HV CABLE	
60	4-202-123-01	WINDOW, ORNAMENTAL		76	A-540-006-23	CAP ASSY, HIGH-VOLTAGE	
61	X-4030-459-1	DAMPER, ASSY		77	4-203-043-01	SCREW (PT)	
62	4-036-880-11	DAMPER		78	4-308-870-00	CLIP, LEAD WIRE	
63	1-504-121-21	SPEAKER (SQUAWKER) (5CM)		79	1-452-032-00	MAGNET, DISK; 10MM Ø	
64	1-504-145-11	SPEAKER (12CM)		80	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
65	4-200-630-01	CUSHION, FOOT		81	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
				82	3-701-007-00	BAND, BINDING	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked  are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS	COILS
MF : mF, PF : mmF	MMH : mH, μ H : μ H

RESISTORS



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1620-064-A	B BOARD, COMPLETE		C321	1-163-038-91	CERAMIC CHIP 0.1MF	25V
		*****		C322	1-104-664-11	ELECT 47MF	20% 25V
		< CAPACITOR >		C323	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C01	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C324	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C02	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C325	1-104-664-11	ELECT 47MF	20% 25V
C03	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C326	1-126-933-11	ELECT 100MF	20% 16V
C04	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C327	1-126-933-11	ELECT 100MF	20% 16V
C05	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C328	1-126-933-11	ELECT 100MF	20% 16V
C06	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C329	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C07	1-104-664-11	ELECT 47MF	20%	C330	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C08	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C331	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C09	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C332	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C10	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C333	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C11	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C334	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C12	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C335	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C14	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C336	1-163-096-00	CERAMIC CHIP 13PF	5% 50V
C15	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C337	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C16	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C338	1-104-664-11	ELECT 47MF	20% 25V
C17	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C339	1-126-964-11	ELECT 10MF	20% 50V
C18	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C340	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C19	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C341	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C20	1-163-124-00	CERAMIC CHIP 200PF	5%	C342	1-126-964-11	ELECT 10MF	20% 50V
C21	1-163-121-00	CERAMIC CHIP 150PF	5%	C343	1-126-964-11	ELECT 10MF	20% 50V
C22	1-104-664-11	ELECT 47MF	20%	C344	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C23	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C501	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C301	1-163-111-00	CERAMIC CHIP 56PF	5%	C502	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C302	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C503	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C303	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C504	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C304	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C505	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C305	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C506	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C306	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C507	1-104-664-11	ELECT 47MF	20% 25V
C307	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C508	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C308	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C509	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C309	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C510	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C310	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C511	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C311	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C513	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C312	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C514	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C313	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C515	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C314	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C516	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V
C315	1-163-119-00	CERAMIC CHIP 120PF	5%	C517	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C316	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C518	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C317	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C519	1-124-902-00	ELECT 0.47MF	20% 50V
C318	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C520	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C319	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C522	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C320	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C525	1-163-038-91	CERAMIC CHIP 0.1MF	25V

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C527	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1325	1-126-964-11	ELECT 10MF	20% 50V
C528	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1326	1-126-964-11	ELECT 10MF	20% 50V
C530	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1327	1-126-964-11	ELECT 10MF	20% 50V
C531	1-104-664-11	ELECT 47MF	20% 25V	C1328	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C532	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1329	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C533	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1330	1-126-964-11	ELECT 10MF	20% 50V
C534	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1331	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C536	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C537	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1333	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C538	1-104-664-11	ELECT 47MF	20% 25V	C1334	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C539	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1335	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C540	1-104-664-11	ELECT 47MF	20% 25V	C1336	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C541	1-104-664-11	ELECT 47MF	20% 25V	C1337	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C542	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1338	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C543	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1339	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C544	1-104-664-11	ELECT 47MF	20% 25V	C1340	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C545	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1341	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C546	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1342	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C547	1-126-924-11	ELECT 330MF	20% 10V	C1343	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C548	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1344	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C553	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1345	1-126-964-11	ELECT 10MF	20% 50V
C556	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1346	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C557	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C1347	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C558	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C1348	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C559	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C1349	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C560	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1350	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C561	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1351	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C563	1-104-664-11	ELECT 47MF	20% 25V	C1352	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C571	1-126-964-11	ELECT 10MF	20% 50V	C1353	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C572	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	C1402	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C573	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1404	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C574	1-104-664-11	ELECT 47MF	20% 25V	C1405	1-126-964-11	ELECT 10MF	20% 50V
C575	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1406	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C576	1-124-903-11	ELECT 1MF	20% 50V	C1408	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C577	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V	C1409	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C578	1-163-139-00	CERAMIC CHIP 820PF	5% 50V	C1410	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C579	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C1411	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1301	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1412	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C1302	1-126-964-11	ELECT 10MF	20% 50V	C1413	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C1303	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1415	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C1304	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C1416	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C1306	1-126-964-11	ELECT 10MF	20% 50V	C1418	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C1307	1-126-964-11	ELECT 10MF	20% 50V	C1420	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1308	1-126-964-11	ELECT 10MF	20% 50V	C1421	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1309	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1422	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1310	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1424	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1311	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1425	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
C1312	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1426	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1313	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C1427	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1314	1-126-964-11	ELECT 10MF	20% 50V	C1428	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1315	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1429	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1316	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1430	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1317	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1431	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1318	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1432	1-104-664-11	ELECT 47MF	20% 25V
C1319	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1443	1-104-664-11	ELECT 47MF	20% 25V
C1320	1-164-004-91	CERAMIC CHIP 0.022MF	10% 25V	C1444	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1321	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C1445	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1322	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1446	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1323	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C1447	1-104-664-11	ELECT 47MF	20% 25V
C1324	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C1448	1-104-664-11	ELECT 47MF	20% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1449	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC507	8-759-925-74	IC SN74HC04ANS	
C1450	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC571	8-759-083-11	IC LA7217M	
C1451	1-126-964-11	ELECT 10MF	20%	IC1301	8-759-368-89	IC TDA8395T/N2	
C1452	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC1302	8-752-070-58	IC CXA1860Q-T4	
C1453	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC1303	8-759-368-89	IC TDA8395T/N2	
C1454	1-104-664-11	ELECT 47MF	20%	IC1304	8-752-070-58	IC CXA1860Q-T4	
C1455	1-163-117-00	CERAMIC CHIP 100PF	5%	IC1305	8-759-032-11	IC MC74HC04AF	
C1456	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC1306	8-759-032-11	IC MC74HC04AF	
C1457	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC1401	8-752-370-86	IC CXD2033R-TL	
C1458	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC1402	8-759-032-23	IC MC74HC74AF	
C1459	1-126-964-11	ELECT 10MF	20%	IC1403	8-759-362-96	IC MB81C1501PFTN-G-D-ER	
C1460	1-104-664-11	ELECT 47MF	20%	IC1406	8-759-239-23	IC TC74HC86AF	
C1461	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C1462	1-163-038-91	CERAMIC CHIP 0.1MF	25V				
							< COIL >
				L01	1-408-397-00	INDUCTOR	1UH
CN0302	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P		L02	1-408-397-00	INDUCTOR	1UH
				L301	1-408-403-00	INDUCTOR	3.3UH
				L302	1-408-403-00	INDUCTOR	3.3UH
				L303	1-408-403-00	INDUCTOR	3.3UH
D01	8-719-914-44	DIODE DAP202K		L304	1-414-248-11	INDUCTOR	2.2UH
D301	8-719-031-68	DIODE HVU359TRF		L305	1-414-248-11	INDUCTOR	2.2UH
D302	8-719-031-68	DIODE HVU359TRF		L306	1-408-403-00	INDUCTOR	3.3UH
D303	8-719-404-46	DIODE MA110		L307	1-408-397-00	INDUCTOR	1UH
D1301	8-719-404-46	DIODE MA110		L308	1-408-397-00	INDUCTOR	1UH
D1302	8-719-914-43	DIODE DAN202K		L501	1-408-397-00	INDUCTOR	1UH
D1303	8-719-914-43	DIODE DAN202K		L502	1-408-397-00	INDUCTOR	1UH
D1304	8-719-914-43	DIODE DAN202K		L503	1-414-243-11	INDUCTOR	1UH
D1307	8-719-404-46	DIODE MA110		L504	1-414-243-11	INDUCTOR	1UH
D1308	8-719-404-46	DIODE MA110		L505	1-414-243-11	INDUCTOR	1UH
D1309	8-719-914-43	DIODE DAN202K		L506	1-408-397-00	INDUCTOR	1UH
D1401	8-719-031-68	DIODE HVU359TRF		L507	1-408-397-00	INDUCTOR	1UH
D1402	8-719-031-68	DIODE HVU359TRF		L508	1-408-397-00	INDUCTOR	1UH
D1403	8-719-404-46	DIODE MA110		L509	1-408-397-00	INDUCTOR	1UH
				L512	1-408-405-00	INDUCTOR	4.7UH
							< ENCAPSULATED FILTER >
FL01	1-233-446-11	FILTER, LOW PASS		L513	1-408-405-00	INDUCTOR	4.7UH
FL02	1-233-438-11	FILTER, LOW PASS		L1301	1-414-196-11	INDUCTOR	47UH
FL03	1-233-438-11	FILTER, LOW PASS		L1401	1-408-403-00	INDUCTOR	3.3UH
FL301	1-236-620-11	FILTER, LOW PASS		L1402	1-414-248-11	INDUCTOR	2.2UH
FL302	1-236-620-11	FILTER, LOW PASS		L1404	1-414-248-11	INDUCTOR	2.2UH
FL352	1-233-436-11	FILTER, LOW PASS		L1405	1-408-403-00	INDUCTOR	3.3UH
FL353	1-233-435-11	FILTER, LOW PASS		L1406	1-408-403-00	INDUCTOR	3.3UH
FL355	1-233-436-11	FILTER, LOW PASS		L1408	1-408-403-00	INDUCTOR	3.3UH
FL1301	1-233-434-11	FILTER, LOW PASS		L1409	1-408-403-00	INDUCTOR	3.3UH
FL1302	1-233-434-11	FILTER, LOW PASS		L1410	1-408-403-00	INDUCTOR	3.3UH
				L1411	1-408-397-00	INDUCTOR	1UH
				L1412	1-408-401-00	INDUCTOR	2.2UH
							< IC >
IC01	8-752-338-46	IC CXD1178Q					
IC02	8-752-370-87	IC CXD2035R					
IC04	8-752-359-55	IC CXK48324R		Q01	8-729-216-22	TRANSISTOR 2SA1162-G	
IC05	8-752-359-55	IC CXK48324R		Q02	8-729-216-22	TRANSISTOR 2SA1162-G	
IC06	8-759-362-96	IC MB81V1501PFTN-G-D-ER		Q03	8-729-216-22	TRANSISTOR 2SA1162-G	
IC07	8-752-376-16	IC CXD2036Q-TL		Q04	8-729-216-22	TRANSISTOR 2SA1162-G	
IC301	8-752-357-86	IC CXD2300Q-T4		Q05	8-729-216-22	TRANSISTOR 2SA1162-G	
IC302	8-752-370-77	IC CXD2030R-TL		Q06	8-729-216-22	TRANSISTOR 2SA1162-G	
IC501	8-759-925-76	IC SN74HC08ANS		Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
IC502	8-752-370-85	IC CXD2032Q-TL		Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
IC503	8-752-357-62	IC CXD2307R		Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
IC504	8-759-350-07	IC SDA9205-2GEG		Q304	8-729-216-22	TRANSISTOR 2SA1162-G	
IC505	8-759-034-91	IC MC74F244M		Q305	8-729-216-22	TRANSISTOR 2SA1162-G	
IC506	8-759-034-91	IC MC74F244M					

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q306	8-729-920-74	TRANSISTOR 2SC2412K-QR		R26	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
Q307	8-729-920-74	TRANSISTOR 2SC2412K-QR		R27	1-216-047-91	METAL GLAZE	820 5% 1/10W
Q308	8-729-920-74	TRANSISTOR 2SC2412K-QR		R28	1-216-047-91	METAL GLAZE	820 5% 1/10W
Q309	8-729-920-74	TRANSISTOR 2SC2412K-QR		R29	1-216-047-91	METAL GLAZE	820 5% 1/10W
Q351	8-729-920-74	TRANSISTOR 2SC2412K-QR		R36	1-216-631-11	METAL CHIP	150 0.50% 1/10W
Q352	8-729-920-74	TRANSISTOR 2SC2412K-QR		R37	1-216-627-11	METAL CHIP	100 0.50% 1/10W
Q353	8-729-920-74	TRANSISTOR 2SC2412K-QR		R38	1-216-627-11	METAL CHIP	100 0.50% 1/10W
Q354	8-729-216-22	TRANSISTOR 2SA1162-G		R53	1-216-295-91	METAL GLAZE	0 5% 1/10W
Q356	8-729-216-22	TRANSISTOR 2SA1162-G		R56	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q358	8-729-216-22	TRANSISTOR 2SA1162-G		R58	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q359	8-729-900-53	TRANSISTOR DTC114EK		R59	1-216-049-91	METAL GLAZE	1K 5% 1/10W
Q360	8-729-901-04	TRANSISTOR DTA114EK		R60	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		R61	1-216-295-91	METAL GLAZE	0 5% 1/10W
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R301	1-216-022-00	METAL GLAZE	75 5% 1/10W
Q503	8-729-216-22	TRANSISTOR 2SA1162-G		R302	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q504	8-729-216-22	TRANSISTOR 2SA1162-G		R303	1-216-039-00	METAL GLAZE	390 5% 1/10W
Q505	8-729-119-78	TRANSISTOR 2SC2785-HFE		R304	1-208-767-11	METAL CHIP	240 0.50% 1/10W
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		R305	1-216-043-91	METAL GLAZE	560 5% 1/10W
Q508	8-729-216-22	TRANSISTOR 2SA1162-G		R306	1-216-049-91	METAL GLAZE	1K 5% 1/10W
Q509	8-729-216-22	TRANSISTOR 2SA1162-G		R307	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
Q510	8-729-216-22	TRANSISTOR 2SA1162-G		R308	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
Q1301	8-729-920-74	TRANSISTOR 2SC2412K-QR		R309	1-216-664-11	METAL CHIP	3.6K 0.50% 1/10W
Q1302	8-729-920-74	TRANSISTOR 2SC2412K-QR		R310	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
Q1303	8-729-920-74	TRANSISTOR 2SC2412K-QR		R311	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q1304	8-729-920-74	TRANSISTOR 2SC2412K-QR		R312	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR		R313	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
Q1306	8-729-920-74	TRANSISTOR 2SC2412K-QR		R314	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
Q1307	8-729-920-74	TRANSISTOR 2SC2412K-QR		R315	1-208-767-11	METAL CHIP	240 0.50% 1/10W
Q1308	8-729-920-74	TRANSISTOR 2SC2412K-QR		R316	1-216-022-00	METAL GLAZE	75 5% 1/10W
Q1309	8-729-920-74	TRANSISTOR 2SC2412K-QR		R317	1-216-043-91	METAL GLAZE	560 5% 1/10W
Q1310	8-729-920-74	TRANSISTOR 2SC2412K-QR		R318	1-216-049-91	METAL GLAZE	1K 5% 1/10W
Q1311	8-729-920-74	TRANSISTOR 2SC2412K-QR		R319	1-216-097-91	METAL GLAZE	100K 5% 1/10W
Q1312	8-729-920-74	TRANSISTOR 2SC2412K-QR		R320	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
Q1313	8-729-920-74	TRANSISTOR 2SC2412K-QR		R321	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
Q1314	8-729-216-22	TRANSISTOR 2SA1162-G		R322	1-216-043-91	METAL GLAZE	560 5% 1/10W
Q1315	8-729-920-74	TRANSISTOR 2SC2412K-QR		R323	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q1316	8-729-920-74	TRANSISTOR 2SC2412K-QR		R324	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
Q1317	8-729-920-74	TRANSISTOR 2SC2412K-QR		R325	1-216-097-91	METAL GLAZE	100K 5% 1/10W
Q1318	8-729-216-22	TRANSISTOR 2SA1162-G		R326	1-216-091-00	METAL GLAZE	56K 5% 1/10W
Q1319	8-729-216-22	TRANSISTOR 2SA1162-G		R327	1-216-097-91	METAL GLAZE	100K 5% 1/10W
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G		R328	1-216-049-91	METAL GLAZE	1K 5% 1/10W
Q1402	8-729-216-22	TRANSISTOR 2SA1162-G		R329	1-216-049-91	METAL GLAZE	1K 5% 1/10W
Q1403	8-729-920-74	TRANSISTOR 2SC2412K-QR		R330	1-216-091-00	METAL GLAZE	56K 5% 1/10W
Q1404	8-729-140-96	TRANSISTOR 2SD774-34		R331	1-216-075-00	METAL GLAZE	12K 5% 1/10W
Q1405	8-729-216-22	TRANSISTOR 2SA1162-G		R332	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
< RESISTOR >				R333	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R01	1-216-629-11	METAL CHIP	120 0.50% 1/10W	R334	1-216-037-00	METAL GLAZE	330 5% 1/10W
R02	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R335	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R03	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R336	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R04	1-216-043-91	METAL GLAZE	560 5% 1/10W	R337	1-216-043-91	METAL GLAZE	560 5% 1/10W
R05	1-216-043-91	METAL GLAZE	560 5% 1/10W	R338	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
R06	1-216-043-91	METAL GLAZE	560 5% 1/10W	R339	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R07	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R356	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R08	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R357	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R09	1-216-662-11	METAL CHIP	3K 0.50% 1/10W	R358	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R10	1-216-295-91	METAL GLAZE	0 5% 1/10W	R359	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R13	1-216-295-91	METAL GLAZE	0 5% 1/10W	R360	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R24	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R361	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R25	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R362	1-208-800-11	METAL CHIP	5.6K 0.50% 1/10W
				R363	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R364	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	R1302	1-216-025-91	METAL GLAZE	100	5%	1/10W
R365	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	R1303	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R367	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	R1304	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R368	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W	R1305	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R372	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	R1306	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R373	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W	R1307	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R374	1-216-025-91	METAL GLAZE	100	5%	1/10W	R1308	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R375	1-216-025-91	METAL GLAZE	100	5%	1/10W	R1310	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R376	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R1311	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R377	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R1312	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R378	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1313	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R501	1-216-025-91	METAL GLAZE	100	5%	1/10W	R1314	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R502	1-216-025-91	METAL GLAZE	100	5%	1/10W	R1315	1-208-767-11	METAL CHIP	240	0.50%	1/10W
R505	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1316	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R506	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1317	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R507	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1318	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R508	1-216-632-11	METAL CHIP	160	0.50%	1/10W	R1319	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R509	1-216-631-11	METAL CHIP	150	0.50%	1/10W	R1320	1-216-648-11	METAL CHIP	750	0.50%	1/10W
R510	1-216-631-11	METAL CHIP	150	0.50%	1/10W	R1321	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R511	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	R1322	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R512	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1323	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R513	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R1324	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R516	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R1325	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R517	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1326	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R518	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R1327	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R519	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R1328	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R520	1-216-085-00	METAL GLAZE	33K	5%	1/10W	R1329	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R521	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	R1330	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R522	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	R1331	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R523	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R1332	1-216-626-11	METAL CHIP	91	0.50%	1/10W
R524	1-216-121-91	METAL GLAZE	1M	5%	1/10W	R1333	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R529	1-218-756-11	METAL CHIP	150K	0.50%	1/10W	R1334	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R530	1-216-047-91	METAL GLAZE	820	5%	1/10W	R1335	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R531	1-216-047-91	METAL GLAZE	820	5%	1/10W	R1336	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R532	1-216-295-91	METAL GLAZE	0	5%	1/10W	R1337	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R535	1-216-047-91	METAL GLAZE	820	5%	1/10W	R1338	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R538	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1339	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R539	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1340	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R540	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1341	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R554	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	R1342	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R555	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W	R1343	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R556	1-216-631-11	METAL CHIP	150	0.50%	1/10W	R1344	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R557	1-216-603-11	METAL CHIP	10	0.50%	1/10W	R1345	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R558	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1346	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R559	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1347	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R561	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	R1348	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R562	1-216-031-00	METAL GLAZE	180	5%	1/10W	R1349	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R563	1-216-031-00	METAL GLAZE	180	5%	1/10W	R1350	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R564	1-216-031-00	METAL GLAZE	180	5%	1/10W	R1351	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R565	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1352	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R566	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R1353	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R572	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	R1355	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R573	1-216-101-00	METAL GLAZE	150K	5%	1/10W	R1356	1-208-771-11	METAL CHIP	360	0.5%	1/10W
R574	1-216-043-91	METAL GLAZE	560	5%	1/10W	R1357	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R575	1-216-033-00	METAL GLAZE	220	5%	1/10W	R1358	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R576	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R1359	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R577	1-216-295-91	METAL GLAZE	0	5%	1/10W	R1360	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R579	1-216-631-11	METAL CHIP	150	0.50%	1/10W	R1361	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R580	1-216-295-91	METAL GLAZE	0	5%	1/10W	R1362	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1301	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1363	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W

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The components identified by shading and marked ▲ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK		
R1364	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W	*A-1624-053-A	F1 BOARD, COMPLETE	*****		
R1365	1-216-097-91	METAL GLAZE	100K 5%	1/10W					
R1366	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W		< CONNECTOR >			
R1367	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C90007 ▲ 1-580-844-11	PIN, CONNECTOR (POWER)			
R1368	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C90622 ▲ 1-695-292-11	PIN, CONNECTOR (POWER)			
R1369	1-216-083-00	METAL GLAZE	27K 5%	1/10W					
R1370	1-216-073-00	METAL GLAZE	10K 5%	1/10W					
R1371	1-216-049-91	METAL GLAZE	1K 5%	1/10W		< FUSE >			
R1372	1-216-105-91	METAL GLAZE	220K 5%	1/10W	F651 ▲ 1-576-232-11	FUSE (E.B.C.) (5A 250V)			
R1373	1-216-097-91	METAL GLAZE	100K 5%	1/10W	1-533-230-11	HOLDER, FUSE; F651			
R1374	1-216-049-91	METAL GLAZE	1K 5%	1/10W		< SWITCH >			
R1375	1-216-049-91	METAL GLAZE	1K 5%	1/10W					
R1376	1-216-049-91	METAL GLAZE	1K 5%	1/10W					
R1377	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W					
R1378	1-218-764-11	METAL CHIP	330K 0.50%	1/10W					
R1401	1-216-022-00	METAL GLAZE	75 5%	1/10W					
R1402	1-216-022-00	METAL GLAZE	75 5%	1/10W	*A-1630-370-A	A1 BOARD, COMPLETE	*****		
R1405	1-216-651-11	METAL CHIP	1K 0.50%	1/10W		< CAPACITOR >			
R1406	1-216-659-11	METAL CHIP	2.2K 0.50%	1/10W					
R1407	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	C1236	1-164-348-11	CERAMIC CHIP 0.12MF	10%	25V
R1410	1-216-091-00	METAL GLAZE	56K 5%	1/10W	C1237	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
R1411	1-216-091-00	METAL GLAZE	56K 5%	1/10W	C1238	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V
R1412	1-216-097-91	METAL GLAZE	100K 5%	1/10W	C1239	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V
R1413	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C1240	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V
R1414	1-216-097-91	METAL GLAZE	100K 5%	1/10W	C1241	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
R1415	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C1242	1-163-014-00	CERAMIC CHIP 0.0027MF	5%	50V
R1416	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W	C1243	1-163-014-00	CERAMIC CHIP 0.0027MF	5%	50V
R1417	1-216-073-00	METAL GLAZE	10K 5%	1/10W	C1244	1-163-010-11	CERAMIC CHIP 0.0012MF	10%	50V
R1419	1-216-105-91	METAL GLAZE	220K 5%	1/10W	C1245	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
R1420	1-216-091-00	METAL GLAZE	56K 5%	1/10W	C1246	1-126-965-11	ELECT 22MF	20%	50V
R1421	1-216-085-00	METAL GLAZE	33K 5%	1/10W	C1247	1-126-933-11	ELECT 100MF	20%	16V
R1422	1-216-073-00	METAL GLAZE	10K 5%	1/10W	C1248	1-164-348-11	CERAMIC CHIP 0.12MF	10%	25V
R1424	1-216-081-00	METAL GLAZE	22K 5%	1/10W	C1249	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
R1425	1-216-097-91	METAL GLAZE	100K 5%	1/10W	C1250	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V
R1426	1-216-085-00	METAL GLAZE	33K 5%	1/10W	C1251	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V
R1427	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W	C1252	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V
R1428	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	C1253	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
R1434	1-216-041-00	METAL GLAZE	470 5%	1/10W	C1254	1-163-014-00	CERAMIC CHIP 0.0027MF	5%	50V
R1435	1-216-651-11	METAL CHIP	1K 0.50%	1/10W	C1255	1-163-014-00	CERAMIC CHIP 0.0027MF	5%	50V
R1436	1-216-649-11	METAL CHIP	820 0.50%	1/10W	C1256	1-163-010-11	CERAMIC CHIP 0.0012MF	10%	50V
R1437	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C1257	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
R1438	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C1264	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
R1439	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C3201	1-124-925-11	ELECT 2.2MF	20%	50V
R1440	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C3202	1-126-934-11	ELECT 220MF	20%	16V
R1441	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C3203	1-107-682-11	CERAMIC CHIP 1MF	10%	16V
R1442	1-216-049-91	METAL GLAZE	1K 5%	1/10W	C3204	1-126-964-11	ELECT 10MF	20%	50V
< CRYSTAL >									
X301	1-760-457-91	VIBRATOR, CRYSTAL (17.7MHZ)			C3205	1-126-964-11	ELECT 10MF	20%	50V
X302	1-527-722-00	OSCILLATOR, CRYSTAL (14.3MHZ)			C3206	1-126-964-11	ELECT 10MF	20%	50V
X571	1-577-165-11	VIBRATOR, CERAMIC			C3207	1-126-964-11	ELECT 10MF	20%	50V
X1401	1-527-722-00	OSCILLATOR, CRYSTAL (14.3MHZ)			C3208	1-107-682-11	CERAMIC CHIP 1MF	10%	16V
X1402	1-760-457-91	VIBRATOR, CRYSTAL (17.7MHZ)			C3209	1-136-159-00	FILM 0.033MF	5%	50V
					C3210	1-136-480-11	FILM 0.0015MF	5%	100V
					C3211	1-136-159-00	FILM 0.033MF	5%	50V
					C3212	1-126-934-11	ELECT 220MF	20%	16V
					C3215	1-126-934-11	ELECT 220MF	20%	16V
					C3216	1-126-964-11	ELECT 10MF	20%	50V
					C3217	1-126-964-11	ELECT 10MF	20%	50V
					C3218	1-126-964-11	ELECT 10MF	20%	50V
					C3219	1-126-964-11	ELECT 10MF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3220	1-126-934-11	ELECT 220MF	20% 16V			< COIL >	
C3221	1-107-682-11	CERAMIC CHIP 1MF	10% 16V	L1203	1-408-419-00	INDUCTOR	68UH
C3222	1-107-682-11	CERAMIC CHIP 1MF	10% 16V	L3201	1-408-419-00	INDUCTOR	68UH
C3223	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L3202	1-408-419-00	INDUCTOR	68UH
C3224	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			< TRANSISTOR >	
C3225	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	Q1203	8-729-901-01	TRANSISTOR DTC144EK	
C3226	1-131-351-00	TANTALUM 4.7MF	10% 35V	Q1204	8-729-901-01	TRANSISTOR DTC144EK	
C3227	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V			< RESISTOR >	
C3228	1-131-351-00	TANTALUM 4.7MF	10% 35V	JR3201	1-216-295-91	METAL GLAZE 0	5% 1/10W
C3229	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	JR3202	1-216-295-91	METAL GLAZE 0	5% 1/10W
C3230	1-131-350-00	TANTALUM 3.3MF	10% 35V	R1131	1-216-041-00	METAL GLAZE 470	5% 1/10W
C3231	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	R1132	1-216-041-00	METAL GLAZE 470	5% 1/10W
C3232	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	R1246	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3233	1-131-350-00	TANTALUM 3.3MF	10% 35V	R1247	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3234	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	R1248	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3235	1-131-351-00	TANTALUM 4.7MF	10% 35V	R1249	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3236	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	R1250	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3237	1-131-351-00	TANTALUM 4.7MF	10% 35V	R1251	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3238	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	R1252	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3239	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R1253	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3240	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R1254	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3241	1-126-967-11	ELECT 47MF	20% 16V	R1255	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3242	1-136-170-00	FILM 0.27MF	5% 50V	R1256	1-216-025-91	METAL GLAZE 100	5% 1/10W
C3243	1-126-964-11	ELECT 10MF	20% 50V	R1257	1-216-025-91	METAL GLAZE 100	5% 1/10W
C3244	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	R1258	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3245	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	R1259	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3246	1-126-964-11	ELECT 10MF	20% 50V	R1260	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3247	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	R1261	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3248	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	R1262	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3249	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	R1263	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3250	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	R1264	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3251	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	R1265	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3252	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	R1266	1-216-089-91	METAL GLAZE 47K	5% 1/10W
C3253	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V	R1267	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C3254	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V	R1268	1-216-295-91	METAL GLAZE 0	5% 1/10W
C3255	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	R1269	1-216-295-91	METAL GLAZE 0	5% 1/10W
C3256	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	R1270	1-216-033-00	METAL GLAZE 220	5% 1/10W
C3257	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	R1271	1-216-033-00	METAL GLAZE 220	5% 1/10W
C3258	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	R3201	1-216-689-11	METAL GLAZE 39K	5% 1/10W
C3259	1-126-933-11	ELECT 100MF	20% 16V	R3202	1-216-228-00	METAL GLAZE 18K	5% 1/BW
C3260	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R3204	1-216-025-91	METAL GLAZE 100	5% 1/10W
C3265	1-136-157-00	FILM 0.022MF	5% 50V	R3205	1-216-025-91	METAL GLAZE 100	5% 1/10W
C3266	1-136-161-00	FILM 0.047MF	5% 50V	R3206	1-216-033-00	METAL GLAZE 220	5% 1/10W
C3267	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R3207	1-216-033-00	METAL GLAZE 220	5% 1/10W
C3268	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R3208	1-216-025-91	METAL GLAZE 100	5% 1/10W
		< CONNECTOR >		R3209	1-216-025-91	METAL GLAZE 100	5% 1/L0W
CN1101	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P		R3210	1-216-085-00	METAL GLAZE 33K	5% 1/L0W
		< FERRITE BEAD >		R3211	1-208-854-11	METAL CHIP 1M	0.50% 1/L0W
		< IC >		X3201	1-579-125-11	VIBRATOR, CERAMIC	
IC1205	8-759-257-64	IC TDA7317					
IC3201	8-759-248-74	IC LA2785					
IC3202	8-759-341-23	IC LV1011					
IC3203	8-759-266-65	IC TDA6622-5					

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
*A-1632-297-A	A BOARD, COMPLETE (KV-S2951A/S2951D)	*****		C211	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	
*A-1632-347-A	A BOARD, COMPLETE (KV-S2953B)	*****		C212	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	
*A-1632-348-A	A BOARD, COMPLETE (KV-S2953E)	*****		C213	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	
*A-1632-349-A	A BOARD, COMPLETE (KV-S2951K)	*****		C214	1-126-967-11	ELECT 47MF	20% 50V	
*A-1632-346-A	A BOARD, COMPLETE (KV-S2952U)	*****		C215	1-126-967-11	ELECT 47MF	20% 50V	
4-201-023-01	SPACER, INSULATING			C218	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	
4-202-373-01	SPRING, IC			C219	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	
4-382-854-11	SCREW (M3X10), P, SW (+)			C220	1-124-925-11	ELECT 2.2MF	20% 50V	
	< CAPACITOR >			C221	1-124-925-11	ELECT 2.2MF	20% 50V	
C001	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C222	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C002	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C223	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C004	1-164-222-11	CERAMIC CHIP 0.22MF		25V	C224	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C007	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C225	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C008	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C226	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C009	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C227	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C010	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C228	1-124-925-11	ELECT 2.2MF	20% 50V
C012	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C229	1-124-925-11	ELECT 2.2MF	20% 50V
C014	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C230	1-136-177-00	FILM 1MF	5% 50V
C016	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	C231	1-136-177-00	FILM 1MF	5% 50V
C017	1-164-222-11	CERAMIC CHIP 0.22MF		25V	C232	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C018	1-124-925-11	ELECT 2.2MF	20%	50V	C233	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	CERAMIC CHIP 680PF	10% 50V
C019	1-126-965-11	ELECT 22MF	20%	50V	C234	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	ELECT 10MF	20% 50V
C020	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C235	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	ELECT 10MF	20% 50V
C022	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C236	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)	ELECT 100MF	20% 16V
C023	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C237	1-104-665-11	ELECT 100MF	20% 25V
C024	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C238	1-136-165-00	FILM 0.1MF	5% 50V
C025	1-164-222-11	CERAMIC CHIP 0.22MF		25V	C239	1-136-165-00	FILM 0.1MF	5% 50V
C026	1-164-222-11	CERAMIC CHIP 0.22MF		25V	C240	1-104-665-11	ELECT 100MF	20% 25V
C027	1-164-346-11	CERAMIC CHIP 1MF		16V	C242	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C028	1-126-964-11	ELECT 10MF	20%	50V	C243	1-126-967-11	ELECT 47MF	20% 16V
C032	1-163-185-00	CERAMIC CHIP 150PF	5%	50V	C248	1-163-185-00	CERAMIC CHIP 150PF	5% 50V
C042	1-164-346-11	CERAMIC CHIP 1MF		16V	C239	1-136-165-00	FILM 0.1MF	5% 50V
C072	1-126-934-11	ELECT 220MF	20%	16V	C240	1-104-665-11	ELECT 100MF	20% 25V
C081	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	C242	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C103	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C243	1-126-967-11	ELECT 47MF	20% 16V
C104	1-126-934-11	ELECT 220MF	20%	16V	C256	1-126-967-11	ELECT 47MF	20% 16V
C105	1-126-965-11	ELECT 22MF	20%	50V	C258	1-126-934-11	ELECT 220MF	20% 16V
C106	1-124-927-11	ELECT 4.7MF	20%	50V	C259	1-107-714-11	ELECT 10MF	20% 16V
	(KV-S2951A/S2951D/S2953E/S2951K/S2952U)			C260	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	
	1-126-933-11	ELECT 100MF	20%	16V	C261	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
	(KV-S2953B)			C262	1-126-967-11	ELECT 47MF	20% 16V	
C107	1-126-934-11	ELECT 220MF	20%	16V	C263	1-126-967-11	ELECT 47MF	20% 16V
C120	1-163-031-11	CERAMIC CHIP 0.01MF		50V	C264	1-136-165-00	FILM 0.1MF	5% 50V
C201	1-163-078-11	CERAMIC CHIP 0.033MF	10%	25V	C265	1-136-165-00	FILM 0.1MF	5% 50V
C202	1-163-078-11	CERAMIC CHIP 0.033MF	10%	25V	C266	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C203	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V	C267	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C204	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V	C268	1-136-165-00	FILM 0.1MF	5% 50V
C205	1-126-964-11	ELECT 10MF	20%	50V	C269	1-136-165-00	FILM 0.1MF	5% 50V
C206	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	C270	1-126-953-11	ELECT 2200MF	20% 35V
	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			C271	1-126-953-11	ELECT 2200MF	20% 35V	
C207	1-137-613-11	FILM 0.0018MF	2%	100V	C272	1-126-953-11	ELECT 2200MF	20% 35V
	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)			C273	1-126-953-11	ELECT 2200MF	20% 35V	
C208	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V	C274	1-136-165-00	FILM 0.1MF	5% 50V
C209	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V	C275	1-136-165-00	FILM 0.1MF	5% 50V
C210	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V	C280	1-126-967-11	ELECT 47MF	20% 16V
				C281	1-126-940-11	ELECT 330MF	20% 16V	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C283	1-164-489-91	CERAMIC CHIP 0.22MF	10% 16V	C1115	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C284	1-164-489-91	CERAMIC CHIP 0.22MF	10% 16V	C1116	1-126-967-11	ELECT 47MF	20% 16V
C285	1-164-489-91	CERAMIC CHIP 0.22MF	10% 16V	C1117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C351	1-126-964-11	ELECT 10MF	20% 50V	C1118	1-126-967-11	ELECT 47MF	20% 16V
C352	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1119	1-126-967-11	ELECT 47MF	20% 16V
C355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1120	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C356	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1121	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C357	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1122	1-126-967-11	ELECT 47MF	20% 16V
C358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C359	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C360	1-164-326-91	CERAMIC CHIP 0.47MF	16V	C1125	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C361	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1126	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C362	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1127	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C364	1-126-964-11	ELECT 10MF	20% 50V	C1128	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C372	1-126-964-11	ELECT 10MF	20% 50V	C1129	1-162-568-11	CERAMIC CHIP 0.33MF	25V
C373	1-126-964-11	ELECT 10MF	20% 50V	C1130	1-124-903-11	ELECT 1MF	20% 50V
C580	1-126-964-11	ELECT 10MF	20% 50V	C1131	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C581	1-124-902-00	ELECT 0.47MF	20% 50V	C1132	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C582	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C1133	1-126-967-11	ELECT 47MF	20% 16V
C585	1-126-967-11	ELECT 47MF	20% 16V	C1134	1-126-964-11	ELECT 10MF	20% 50V
C586	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1135	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C587	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C588	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1137	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
C589	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1139	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C590	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1142	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C591	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1143	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C592	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1147	1-126-967-11	ELECT 47MF	20% 16V
C593	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1148	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C594	1-126-967-11	ELECT 47MF	20% 50V	C1150	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C681	1-104-664-11	ELECT 47MF	20% 25V	C1151	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C682	1-126-967-11	ELECT 47MF	20% 16V	C1152	1-126-967-11	ELECT 47MF	20% 16V
C683	1-104-664-11	ELECT 47MF	20% 25V	C1157	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C684	1-104-664-11	ELECT 47MF	20% 25V	C1501	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C685	1-126-967-11	ELECT 47MF	20% 16V	C1502	1-124-903-11	ELECT 1MF	20% 50V
C686	1-126-967-11	ELECT 47MF	20% 16V	C1504	1-124-122-11	ELECT 100MF	20% 50V
C687	1-126-967-11	ELECT 47MF	20% 16V	C1505	1-137-371-11	FILM 0.015MF	5% 50V
C688	1-126-967-11	ELECT 47MF	20% 16V	C1506	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C689	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1507	1-106-383-00	MYLAR 0.047MF	10% 100V
C690	1-126-967-11	ELECT 47MF	20% 16V	C1508	1-137-423-11	MYLAR 0.15MF	10% 100V
C691	1-126-967-11	ELECT 47MF	20% 16V	C1510	1-130-789-00	FILM 1MF	5% 100V
C692	1-126-967-11	ELECT 47MF	20% 16V	C1511	1-126-941-11	ELECT 470MF	20% 25V
C693	1-126-967-11	ELECT 47MF	20% 16V	C1512	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1007	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C1513	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1008	1-126-967-11	ELECT 47MF	20% 16V	C1514	1-126-941-11	ELECT 470MF	20% 25V
	< C1101 - C1157 FITTED ON >			C1518	1-124-927-11	ELECT 4.7MF	20% 50V
	< KV-S2953B/S2953E/S2952U >			C1520	1-126-965-91	ELECT 22MF	20% 50V
				C1521	1-107-698-11	ELECT 10MF	20% 25V
C1101	1-163-131-00	CERAMIC CHIP 390PF	5% 50V	C1522	1-126-964-91	ELECT 10MF	20% 50V
C1102	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	C1523	1-104-664-11	ELECT 47MF	20% 25V
C1103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1531	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C1104	1-126-964-11	ELECT 10MF	20% 50V	C1532	1-126-964-11	ELECT 10MF	20% 50V
C1105	1-126-964-11	ELECT 10MF	20% 50V	C1533	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C1106	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1534	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1107	1-126-967-11	ELECT 47MF	20% 16V	C1535	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C1108	1-126-964-11	ELECT 10MF	20% 50V	C1537	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1110	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1539	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1111	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1540	1-126-967-11	ELECT 47MF	20% 50V
C1112	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1541	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C1113	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C1542	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1114	1-126-967-11	ELECT 47MF	20% 16V	C1543	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1544	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	< CONNECTOR >		
C1545	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V	CN0001	*1-564-520-11	PLUG, CONNECTOR 5P
C1546	1-163-038-91	CERAMIC CHIP 0.1MF		25V	CN0002	*1-568-878-51	PIN, CONNECTOR 3P
C1547	1-164-695-11	CERAMIC CHIP 0.0022MF	5%	50V	CN0101	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P
C1548	1-163-055-00	CERAMIC CHIP 0.0047MF	10%	50V	CN0102	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P
C1549	1-163-055-00	CERAMIC CHIP 0.0047MF	10%	50V	CN0103	1-764-608-11	CONNECTOR, BOARD TO BOARD 8P
C1550	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	CN0104	1-764-608-11	CONNECTOR, BOARD TO BOARD 8P
C1551	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	CN0105	1-764-608-11	CONNECTOR, BOARD TO BOARD 8P
C1552	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	CN0106	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P
C1553	1-163-038-91	CERAMIC CHIP 0.1MF		25V	CN0107	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P
C1554	1-163-038-91	CERAMIC CHIP 0.1MF		25V	CN0109	*1-900-900-67	PIN, CONNECTOR 1P
C1555	1-126-967-11	ELECT 47MF	20%	50V	CN0111	*1-568-882-51	PIN, CONNECTOR 7P
C1556	1-124-122-11	ELECT 100MF	20%	50V	CN0113	*1-568-879-11	PIN, CONNECTOR 4P
C1558	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	CN0114	*1-564-511-11	PLUG, CONNECTOR 8P
C1559	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	CN0115	*1-568-881-51	PIN, CONNECTOR 6P
C1560	1-124-902-00	ELECT 0.47MF	20%	50V	< DIODE >		
C1561	1-104-760-11	CERAMIC CHIP 0.047MF	10%	50V	D001	8-719-027-82	DIODE MA3039H-TX
C1562	1-163-117-91	CERAMIC CHIP 100P	5%	50V	D003	8-719-914-42	DIODE DA204K
C1563	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	D068	8-719-914-44	DIODE DAP202K
C1564	1-164-336-11	CERAMIC CHIP 0.33MF		25V	D069	8-719-914-44	DIODE DAP202K
C1567	1-124-903-11	ELECT 1MF	20%	50V	D071	8-719-109-89	DIODE RD5.6ESB2
C1568	1-164-344-11	CERAMIC CHIP 0.068MF	10%	25V	D073	8-719-109-89	DIODE RD5.6ESB2
C1569	1-163-003-11	CERAMIC CHIP 330PF	10%	50V	D075	8-719-914-43	DIODE DAN202K
C1570	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	D077	8-719-914-43	DIODE DAN202K
C1571	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D078	8-719-109-89	DIODE RD5.6ESB2
C1572	1-126-934-91	ELECT 220MF	20%	16V	D079	8-719-109-89	DIODE RD5.6ESB2
C1585	1-124-903-11	ELECT 1MF	20%	50V	D101	8-719-982-27	DIODE MTZJ-33C
C1586	1-124-902-00	ELECT 0.47MF	20%	50V	D201	8-719-914-42	DIODE DA204K
C1587	1-126-967-11	ELECT 47MF	20%	50V	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)		
C1588	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	D251	8-719-991-33	DIODE 1SS133T-77
C1589	1-162-587-11	CERAMIC CHIP 0.039MF	10%	25V	D252	8-719-991-33	DIODE 1SS133T-77
C1590	1-164-346-11	CERAMIC CHIP 1MF		16V	D253	8-719-991-33	DIODE 1SS133T-77
C1591	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	D254	8-719-991-33	DIODE 1SS133T-77
C1593	1-126-965-91	ELECT 22MF	20%	50V	D255	8-719-914-43	DIODE DAN202K
C2001	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	D256	8-719-991-33	DIODE 1SS133T-77
C2002	1-163-235-11	CERAMIC CHIP 22F	5%	50V	D257	8-719-991-33	DIODE 1SS133T-77
C2003	1-164-222-11	CERAMIC CHIP 0.22MF		25V	D258	8-719-991-33	DIODE 1SS133T-77
C2004	1-164-222-11	CERAMIC CHIP 0.22MF		25V	D259	8-719-991-33	DIODE 1SS133T-77
C2005	1-163-038-91	CERAMIC CHIP 0.1MF		25V	D260	8-719-991-33	DIODE 1SS133T-77
C2007	1-126-965-11	ELECT 22MF	20%	50V	D261	8-719-991-33	DIODE 1SS133T-77
C2008	1-164-222-11	CERAMIC CHIP 0.22MF		25V	D262	8-719-991-33	DIODE 1SS133T-77
C2010	1-163-038-91	CERAMIC CHIP 0.1MF		25V	D263	8-719-914-43	DIODE DAN202K
C2011	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V	D265	8-719-914-42	DIODE DA204K
C2012	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D351	8-719-991-33	DIODE 1SS133T-77
C2013	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D581	8-719-914-43	DIODE DAN202K
C2014	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	D1001	8-719-914-44	DIODE DAP202K
C2016	1-164-222-11	CERAMIC CHIP 0.22MF		25V	D1002	8-719-914-43	DIODE DAN202K
C2017	1-164-222-11	CERAMIC CHIP 0.22MF		25V	D1003	8-719-914-43	DIODE DAN202K
C2019	1-126-965-11	ELECT 22MF	20%	50V	D1101	8-719-914-43	DIODE DAN202K
C2020	1-164-346-11	CERAMIC CHIP 1MF		16V	D1102	8-719-820-71	DIODE DAN202K (KV-S2953B/S2953E/S2952U)
C2024	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	D1503	8-719-908-03	DIODE 1SV214 (KV-S2953B/S2953E/S2952U)
C2025	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	D1504	8-719-110-41	DIODE RD15ESB2
C2027	1-164-222-11	CERAMIC CHIP 0.22MF		25V	D1505	8-719-914-43	DIODE DAN202K
C2031	1-163-031-11	CERAMIC CHIP 0.01MF		50V	D1510	8-719-914-42	DIODE DA204K
C2032	1-126-933-11	ELECT 100MF	20%	16V	D1511	8-719-982-03	DIODE MTZJ-3.6A
C2701	1-126-964-11	ELECT 10MF	20%	50V	D1530	8-719-914-43	DIODE DAN204K
C2702	1-126-967-11	ELECT 47MF	20%	16V	D1533	8-719-400-75	DIODE MA3091
C2706	1-163-003-11	CERAMIC CHIP 330PF	10%	50V	D1534	8-719-914-43	DIODE DAN202K
					D1536	8-719-105-82	DIODE RD5.1M-B2

The components identified by shading and marked A are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
Q2006	8-729-027-59	TRANSISTOR DTC144EKA-T146		R073	1-216-033-00	METAL GLAZE	220 5% 1/10W				
Q2008	8-729-027-52	TRANSISTOR DTC124EKA-T146		R074	1-216-049-91	METAL GLAZE	1K 5% 1/10W				
Q2701	8-729-920-74	TRANSISTOR 2SC2412K-QR		R077	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
< RESISTOR >											
JR001	1-216-295-91	METAL GLAZE	0 5% 1/10W	R101	1-216-025-91	METAL GLAZE	100 5% 1/10W				
JR002	1-216-295-91	METAL GLAZE	0 5% 1/10W	R102	1-216-025-91	METAL GLAZE	100 5% 1/10W				
JR101	1-216-295-91	METAL GLAZE	0 5% 1/10W	R105	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
JR102	1-216-295-91	METAL GLAZE	0 5% 1/10W	R108	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
JR201	1-216-295-91	METAL GLAZE	0 5% 1/10W	R109	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
(KV-S2951A/S2951D/S2951K)											
JR202	1-216-295-91	METAL GLAZE	0 5% 1/10W	R110	1-216-079-00	METAL GLAZE	18K 5% 1/10W				
(KV-S2951A/S2951D/S2951K)											
JR279	1-216-295-91	METAL GLAZE	0 5% 1/10W	R111	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
JR280	1-216-295-91	METAL GLAZE	0 5% 1/10W	R115	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
JR361	1-216-295-91	METAL GLAZE	0 5% 1/10W	R116	1-215-901-00	METAL OXIDE	33K 5% 2W F				
(KV-S2951A/S2951D/S2951K)											
JR362	1-216-295-91	METAL GLAZE	0 5% 1/10W	R121	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
JR363	1-216-295-91	METAL GLAZE	0 5% 1/10W	R127	1-216-295-91	METAL GLAZE	0 5% 1/10W				
JR1013	1-216-295-91	METAL GLAZE	0 5% 1/10W	R130	1-216-295-91	METAL GLAZE	0 5% 1/10W				
JR1501	1-216-295-91	METAL GLAZE	0 5% 1/10W	R131	1-216-295-91	METAL GLAZE	0 5% 1/10W				
JR2002	1-216-295-91	METAL GLAZE	0 5% 1/10W	R201	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W				
(KV-S2951A/S2953B/S2951D/S2953E/S2951K)											
R001	1-216-025-91	METAL GLAZE	100 5% 1/10W	R202	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W				
R002	1-216-025-91	METAL GLAZE	100 5% 1/10W	R203	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W				
R003	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R204	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W				
R004	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R205	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R006	1-216-049-91	METAL GLAZE	1K 5% 1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)							
R007	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R206	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R008	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R207	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R009	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R208	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R010	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R209	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R012	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R210	1-247-734-11	CARBON	39 5% 1/2W				
(KV-S2951A/S2953B/S2951D/S2953E/S2951K)											
R014	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R211	1-247-734-11	CARBON	39 5% 1/2W				
R016	1-216-045-00	METAL GLAZE	680 5% 1/10W	R212	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R017	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R213	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R018	1-216-041-00	METAL GLAZE	470 5% 1/10W	R214	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R020	1-216-049-91	METAL GLAZE	1K 5% 1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)							
R021	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R218	1-249-389-11	CARBON	4.7 5% 1/4W F				
R025	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R219	1-249-389-11	CARBON	4.7 5% 1/4W F				
R028	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R221	1-216-091-00	METAL GLAZE	56K 5% 1/10W				
R029	1-216-049-91	METAL GLAZE	1K 5% 1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)							
R030	1-216-025-91	METAL GLAZE	100 5% 1/10W	R222	1-249-389-11	CARBON	4.7 5% 1/4W F				
(KV-S2951A/S2953B/S2951D/S2953E/S2951K)											
R031	1-216-041-00	METAL GLAZE	470 5% 1/10W	R241	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R032	1-216-073-00	METAL GLAZE	10K 5% 1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2951K)							
R033	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R242	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R034	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R243	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R035	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R244	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
(KV-S2951A/S2953B/S2951D/S2953E/S2951K)											
R036	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R246	1-216-097-91	METAL GLAZE	100K 5% 1/10W				
R037	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R247	1-216-097-91	METAL GLAZE	100K 5% 1/10W				
R038	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R248	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R047	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R249	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R048	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R250	1-216-065-91	METAL GLAZE	4.7K 5% 1/10W				
(KV-S2951A/S2953B/S2951D/S2953E/S2951K)											
R049	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R251	1-216-049-91	METAL GLAZE	1K 5% 1/10W				
R050	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R253	1-216-049-91	METAL GLAZE	1K 5% 1/10W				
R051	1-216-295-91	METAL GLAZE	0 5% 1/10W	R257	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R052	1-216-295-91	METAL GLAZE	0 5% 1/10W	R258	1-216-075-00	METAL GLAZE	12K 5% 1/10W				
R054	1-216-041-00	METAL GLAZE	470 5% 1/10W	R259	1-216-075-00	METAL GLAZE	12K 5% 1/10W				
(KV-S2951A/S2953B/S2951D/S2953E/S2951K)											
R062	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R261	1-216-065-91	METAL GLAZE	4.7K 5% 1/10W				
R067	1-216-043-91	METAL GLAZE	560 5% 1/10W	R262	1-216-357-00	METAL OXIDE	4.7 5% 1W F				
R068	1-216-043-91	METAL GLAZE	560 5% 1/10W	R263	1-216-357-00	METAL OXIDE	4.7 5% 1W F				
R069	1-216-037-00	METAL GLAZE	330 5% 1/10W	R264	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R072	1-216-033-00	METAL GLAZE	220 5% 1/10W	R265	1-216-079-91	METAL GLAZE	18K 5% 1/10W				

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REF.NO.	PART NO.	DESCRIPTION			REMARK		REF.NO.	PART NO.	DESCRIPTION			REMARK	
R266	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R373	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R267	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R375	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R268	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R376	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R269	1-216-039-00	METAL GLAZE	390	5%	1/10W		R377	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R270	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		R378	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R271	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		R379	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R272	1-216-025-91	METAL GLAZE	100	5%	1/10W		R380	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R273	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R384	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R274	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		R385	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R275	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		R386	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R276	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R575	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R277	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R576	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R278	1-216-103-91	METAL GLAZE	180K	5%	1/10W		R578	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R279	1-216-103-91	METAL GLAZE	180K	5%	1/10W		R579	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R280	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R580	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R282	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R581	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R284	1-216-041-00	METAL GLAZE	470	5%	1/10W		R582	1-216-047-91	METAL GLAZE	820	5%	1/10W	
R285	1-216-075-00	METAL GLAZE	12K	5%	1/10W		R583	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R286	1-216-075-00	METAL GLAZE	12K	5%	1/10W		R584	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R287	1-216-041-00	METAL GLAZE	470	5%	1/10W		R587	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R288	1-216-065-91	METAL GLAZE	4.7K	5%	1/10W		R588	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R289	1-216-357-00	METAL OXIDE	4.7	5%	1W F		R681	1-216-471-11	METAL OXIDE	27	5%	3W F	
R290	1-216-357-00	METAL OXIDE	4.7	5%	1W F		R682	1-249-407-11	CARBON	150	5%	1/4W	
R291	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R683	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R292	1-216-049-91	METAL GLAZE	1K	5%	1/10W		R684	1-249-419-11	CARBON	1.5K	5%	1/4W	
R293	1-216-033-00	METAL GLAZE	220	5%	1/10W		R685	1-247-807-31	CARBON	100	5%	1/4W	
R294	1-216-033-00	METAL GLAZE	220	5%	1/10W		R1001	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R295	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R1005	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R296	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R1006	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R297	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W		R1007	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R298	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W		R1008	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R299	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W		R1009	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R351	1-216-033-00	METAL GLAZE	220	5%	1/10W		R1017	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R352	1-216-033-00	METAL GLAZE	220	5%	1/10W		R1018	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R353	1-216-033-00	METAL GLAZE	220	5%	1/10W		R1019	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R354	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R1020	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R355	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W		R1022	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R356	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W		R1023	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R357	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W		R1024	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R358	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R1025	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R359	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2953E/S2951K/S2952U)		R1026	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R360	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2953B)		R1027	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R361	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2951A/S2951D/S2953E/S2951K/S2952U)		R1028	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R362	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2953B)			< R1101 - R1114 FITTED ON >					
R364	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2951A/S2951D/S2953E/S2951K/S2952U)		R1102	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R365	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2951A/S2951D/S2953E/S2951K/S2952U)		R1103	1-216-134-00	METAL GLAZE	2.2	5%	1/8W	
R366	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2951A/S2951D/S2953E/S2951K/S2952U)		R1104	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R367	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2953B)		R1105	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R368	1-216-295-91	METAL GLAZE	0	5%	1/10W (KV-S2953B)		R1106	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R369	1-216-033-00	METAL GLAZE	220	5%	1/10W		R1107	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R371	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R1108	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R372	1-216-043-91	METAL GLAZE	560	5%	1/10W		R1109	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
							R1110	1-216-150-91	METAL GLAZE	10	5%	1/8W	
							R1111	1-216-025-91	METAL GLAZE	100	5%	1/10 W	
							R1112	1-216-025-91	METAL GLAZE	100	5%	1/10 W	
							R1113	1-216-117-00	METAL GLAZE	680K	5%	1/10 W	
							R1114	1-216-158-00	METAL GLAZE	22	5%	1/8W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
< R1115 - R1151 FITTED ON >											
< KV-S2953B/S2953E/S2952U >											
R1115	1-216-121-91	METAL GLAZE	1M 5% 1/10W	R1557	1-216-037-91	METAL GLAZE	330 5% 1/10W				
R1116	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1558	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R1117	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1561	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R1118	1-216-134-00	METAL GLAZE	2.2 5% 1/8W	R1562	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R1119	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R1563	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R1124	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R1564	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R1125	1-216-097-91	METAL GLAZE	100K 5% 1/10W	R1565	1-216-282-00	METAL GLAZE	3.3M 5% 1/8W				
R1132	1-216-097-91	METAL GLAZE	100K 5% 1/10W	R1568	1-216-103-91	METAL GLAZE	180K 5% 1/10W				
R1133	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R1569	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1144	1-216-049-91	METAL GLAZE	1K 5% 1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2952U)							
R1145	1-216-001-00	METAL GLAZE	10 5% 1/10W	R1570	1-216-095-00	METAL GLAZE	82K 5% 1/10W				
R1146	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1571	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R1147	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1572	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1148	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1573	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R1149	1-216-001-00	METAL GLAZE	10 5% 1/10W	R1574	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W				
R1150	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1575	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R1151	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1576	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R1152	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1577	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R1153	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R1578	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R1154	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1579	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R1155	1-216-025-91	METAL GLAZE	100 5% 1/10W	(KV-S2951A/S2953B/S2951D/S2953E/S2952U)							
R1156	1-216-025-91	METAL GLAZE	100 5% 1/10W	R1580	1-215-867-00	METAL OXIDE	470 5% 1W F				
R1157	1-216-025-91	METAL GLAZE	100 5% 1/10W	R1581	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R1158	1-216-025-91	METAL GLAZE	100 5% 1/10W	R1582	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R1159	1-216-025-91	METAL GLAZE	100 5% 1/10W	R1583	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R1160	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1584	1-208-822-11	METAL CHIP	47K 0.50% 1/10W				
R1161	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1585	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1162	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1586	1-208-806-11	METAL CHIP	10K 0.50% 1/10W				
R1163	1-216-073-00	METAL GLAZE	18K 5% 1/10W	R1587	1-216-677-11	METAL CHIP	12K 0.50% 1/10W				
R1164	1-216-073-00	METAL GLAZE	18K 5% 1/10W	R1588	1-216-295-91	METAL GLAZE	0 5% 1/10W				
R1165	1-216-073-00	METAL GLAZE	18K 5% 1/10W	R1589	1-216-295-91	METAL GLAZE	0 5% 1/10W				
R1166	1-216-073-00	METAL GLAZE	18K 5% 1/10W	R1591	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
R1167	1-216-073-00	METAL GLAZE	18K 5% 1/10W	R1592	1-216-069-91	METAL GLAZE	6.8K 5% 1/10W				
R1168	1-216-073-00	METAL GLAZE	18K 5% 1/10W	R1593	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1169	1-216-073-00	METAL GLAZE	18K 5% 1/10W	R1594	1-216-286-00	METAL GLAZE	4.7M 5% 1/8W				
R1170	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1595	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W				
R1171	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R1597	1-216-109-00	METAL GLAZE	330K 5% 1/10W				
R1172	1-216-105-91	METAL GLAZE	220K 5% 1/10W	R1601	1-216-083-00	METAL GLAZE	27K 5% 1/10W				
R1173	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1602	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W				
R1174	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R1604	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W				
R1175	1-216-057-91	METAL GLAZE	2.2K 5% 1/10W	R1605	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R1176	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1607	1-216-101-00	METAL GLAZE	150K 5% 1/10W				
R1177	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R1608	1-216-119-00	METAL GLAZE	820K 5% 1/10W				
R1178	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1609	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R1179	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1610	1-216-075-00	METAL GLAZE	12K 5% 1/10W				
R1180	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1611	1-216-049-91	METAL GLAZE	1K 5% 1/10W				
R1181	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1612	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R1182	1-216-182-00	METAL GLAZE	220 5% 1/8W	R1613	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R1183	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1615	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R1184	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1616	1-216-105-91	METAL GLAZE	220K 5% 1/10W				
R1185	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W	R1617	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R1186	1-216-025-91	METAL GLAZE	100 5% 1/10W	R1618	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R1187	1-216-025-91	METAL GLAZE	100 5% 1/10W	R2002	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1188	1-216-295-91	METAL GLAZE	0 5% 1/10W	R2003	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R1189	1-216-045-91	METAL GLAZE	680 5% 1/10W	R2005	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R1190	1-216-025-91	METAL GLAZE	100 5% 1/10W	R2007	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1191	1-216-025-91	METAL GLAZE	100 5% 1/10W	R2008	1-216-025-91	METAL GLAZE	100 5% 1/10W				
R1192	1-216-049-91	METAL GLAZE	1K 5% 1/10W	R2009	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R1193	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R2010	1-216-025-91	METAL GLAZE	100 5% 1/10W				

A

IF (KV-S2951A/S2951D/S2953E)
KV-S2951K/S2952U

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2011	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C07	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
R2012	1-216-017-91	METAL GLAZE	47 5% 1/10W	C08	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R2013	1-216-017-91	METAL GLAZE	47 5% 1/10W	C09	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R2014	1-216-017-91	METAL GLAZE	47 5% 1/10W	C10	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
R2022	1-216-049-91	METAL GLAZE	1K 5% 1/10W	C11	1-164-337-11	CERAMIC CHIP 2.2MF	16V
R2023	1-216-295-91	METAL GLAZE	0 5% 1/10W	C12	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R2024	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C13	1-124-910-11	ELECT 47MF	20% 50V
R2025	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W	C14	1-124-910-11	ELECT 47MF	20% 50V
R2026	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C15	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R2029	1-216-091-00	METAL GLAZE	56K 5% 1/10W	C16	1-164-346-11	CERAMIC CHIP 1MF	16V
R2030	1-216-025-91	METAL GLAZE	100 5% 1/10W	C17	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R2031	1-216-295-91	METAL GLAZE	0 5% 1/10W	C18	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R2032	1-216-049-91	METAL GLAZE	1K 5% 1/10W	C19	1-164-346-11	CERAMIC CHIP 1MF	16V
R2033	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C20	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R2034	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C21	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R2035	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	C22	1-124-910-11	ELECT 47MF	20% 50V
R2036	1-216-049-91	METAL GLAZE	1K 5% 1/10W	C23	1-124-910-11	ELECT 47MF	20% 50V
R2037	1-216-049-91	METAL GLAZE	1K 5% 1/10W	C24	1-124-910-11	ELECT 47MF	20% 50V
R2038	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	C25	1-124-910-11	ELECT 47MF	20% 50V
R2039	1-216-093-00	METAL GLAZE	68K 5% 1/10W	C26	1-124-910-11	ELECT 47MF	20% 50V
R2040	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W	C27	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
R2701	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C28	1-124-910-11	ELECT 47MF	20% 50V
R2702	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C29	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R2703	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C30	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R2704	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C31	1-124-910-11	ELECT 47MF	20% 50V
R2705	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C32	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R2706	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C33	1-163-086-00	CERAMIC CHIP 3PF	0.25PF 50V
R2707	1-216-295-91	METAL GLAZE	0 5% 1/10W	C34	1-124-910-11	ELECT 47MF	20% 50V
R2708	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C35	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R2713	1-216-295-91	METAL GLAZE	0 5% 1/10W	C36	1-104-666-11	ELECT 220MF	20% 6.3V
< THERMISTOR >							
TH1501	1-810-035-21	THERMISTOR		C37	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
< TUNER >							
TU101	1-693-315-11	TUNER (UV1316)		C38	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
		(KV-S2951A/S2953B/S2951D/S2953E/S2951K)				(KV-S2951A/S2951D/S2953E)	
	1-693-314-11	TUNER (U1344) (KV-S2952U)			1-163-239-11	CERAMIC CHIP 33PF	5% 50V
< CRYSTAL >							
X1001	1-577-082-11	VIBRATOR, CERAMIC (4MHz)		C39	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
X1101	1-579-689-21	VIBRATOR, CRYSTAL (8.192MHz)					
		(KV-S2953B/S2953E/S2952U)				(KV-S2951K)	
X1531	1-760-895-21	VIBRATOR, CERAMIC (2.69MHz)					
X2001	1-760-551-21	VIBRATOR, CERAMIC (20.5MHz)					

1-473-191-11	IF BLOCK (IFH-389WE)	(KV-S2951A/S2951D/S2953E/S2953E)		CF01	1-760-416-21	FILTER, CERAMIC	
1-467-873-12	IF BLOCK (IFH-389EE)	(KV-S2951K)				(KV-S2951A/S2951D/S2953E/S2951K)	
1-473-190-11	IF BLOCK (IFH-395GB)	(KV-S2952U)	*****	CF02	1-760-449-11	FILTER, CERAMIC (KV-S2951K)	
< FILTER >							
C01	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF03	1-760-450-11	FILTER, CERAMIC	
C02	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V			(KV-S2951A/S2951D/S2953E/S2951K)	
C03	1-164-337-11	CERAMIC CHIP 2.2MF	16V	CF04	1-760-106-11	TRAP, CERAMIC	
C04	1-164-337-11	CERAMIC CHIP 2.2MF	16V			(KV-S2951A/S2951D/S2953E/S2951K)	
C05	1-126-965-11	ELECT 22MF	20% 50V	CF05	1-567-100-00	FILTER, CERAMIC (KV-S2952U)	
C06	1-126-965-11	ELECT 22MF	20% 50V		1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
						(KV-S2951A/S2951D/S2953E/S2951K)	
SAW01	1-760-538-11	FILTER, SURFACE WAVE			1-409-333-00	TRAP, CERAMIC (6.0MHZ) (KV-S2952U)	
		(KV-S2951A/S2951D/S2953E/S2951K)					
	1-760-757-11	FILTER, SURFACE WAVE				(KV-S2951A/S2951D/S2953E/S2951K)	
		(KV-S2952U)					

IF (KV-S2951A/S2951D/S2953E)
KV-S2951K/S2952U

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
< CONNECTOR >											
CN01	1-750-919-11	PIN, CONNECTOR (PC BOARD)	10P			R05	1-216-041-00	METAL GLAZE	470	5%	1/10W
CN02	1-750-919-11	PIN, CONNECTOR (PC BOARD)	10P			R06	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
< DIODE >											
D01	8-719-421-57	DIODE MA73-TX		(KV-S2951A/S2951D/S2953E/S2951K)		R07	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
D02	8-719-421-57	DIODE MA73-TX		(KV-S2951A/S2951D/S2953E/S2951K)		R08	1-216-039-00	METAL GLAZE	390	5%	1/10W
	1-216-296-91	METAL GLAZE	0	5%	1/8W			(KV-S2951A/S2951D/S2953E/S2951K)			
D03	8-719-914-43	DIODE DAN202K				R09	1-216-073-00	METAL GLAZE	10K	5%	1/10W
< IC >											
IC01	8-759-289-18	IC TDA9813T-T				R10	1-216-081-00	METAL GLAZE	22K	5%	1/10W
IC02	8-759-514-54	IC BA7046				R11	1-216-081-00	METAL GLAZE	22K	5%	1/10W
IC03	8-759-991-41	IC L78L05ACZ-AP						(KV-S2951A/S2951D/S2953E/S2951K)			
< COIL >											
L01	1-408-409-00	INDUCTOR	10UH			R12	1-216-113-00	METAL GLAZE	470K	5%	1/10W
	1-408-407-00	INDUCTOR	6.8UH	(KV-S2951K)		R13	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
	1-408-408-00	INDUCTOR	6.8UH	(KV-S2952U)		R14	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
L02	1-403-686-11	COIL				R15	1-216-035-00	METAL GLAZE	270	5%	1/10W
L03	1-408-419-00	INDUCTOR	68UH			R17	1-216-081-00	METAL GLAZE	22K	5%	1/10W
L04	1-408-419-00	INDUCTOR	68UH			R18	1-216-093-00	METAL GLAZE	68K	5%	1/10W
L05	1-410-790-41	INDUCTOR	0.56UH			R19	1-216-242-91	METAL GLAZE	68K	5%	1/8W
L06	1-408-419-00	INDUCTOR	68UH			R20	1-216-033-00	METAL GLAZE	180	5%	1/10W
L07	1-408-408-00	INDUCTOR	8.2UH	(KV-S2951K)				(KV-S2951A/S2951D/S2953E)			
< TRANSISTOR >											
Q01	8-729-920-74	TRANSISTOR 2SC2412K-QR				R21	1-216-049-91	METAL GLAZE	1K	5%	1/10W
Q02	8-729-901-01	TRANSISTOR DTC144EK		(KV-S2951A/S2951D/S2953E/S2951K)				(KV-S2951A/S2951D/S2953E)			
Q03	8-729-901-01	TRANSISTOR DTC144EK		(KV-S2951A/S2951D/S2953E/S2951K)		R22	1-216-025-91	METAL GLAZE	100	5%	1/10W
Q04	8-729-216-22	TRANSISTOR 2SA1162-G				R23	1-216-755-11	METAL CHIP	130K	0.50%	1/10W
Q05	8-729-216-22	TRANSISTOR 2SA1162-G				R24	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
Q06	8-729-920-74	TRANSISTOR 2SC2412K-QR				R25	1-216-107-00	METAL GLAZE	270K	5%	1/10W
Q07	8-729-920-74	TRANSISTOR 2SC2412K-QR				R26	1-216-073-00	METAL GLAZE	10K	5%	1/10W
Q08	8-729-920-74	TRANSISTOR 2SC2412K-QR		(KV-S2951A/S2951D/S2953E/S2951K)		R27	1-216-113-00	METAL GLAZE	470K	5%	1/10W
Q09	8-729-920-74	TRANSISTOR 2SC2412K-QR		(KV-S2951A/S2951D/S2953E/S2951K)		R28	1-216-113-00	METAL GLAZE	470K	5%	1/10W
Q10	8-729-920-74	TRANSISTOR 2SC2412K-QR		(KV-S2951A/S2951D/S2953E/S2951K)		R29	1-216-081-00	METAL GLAZE	22K	5%	1/10W
< RESISTOR >											
JR01	1-216-296-91	METAL GLAZE	0	5%	1/8W	R30	1-216-198-91	METAL GLAZE	1K	5%	1/8W
JR02	1-216-296-91	METAL GLAZE	0	5%	1/8W	R31	1-216-198-91	METAL GLAZE	1K	5%	1/8W
JR03	1-216-296-91	METAL GLAZE	0	5%	1/8W	R32	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JR04	1-216-296-91	METAL GLAZE	0	5%	1/8W	R33	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
JR05	1-216-295-91	METAL GLAZE	0	5%	1/10W	R34	1-216-095-00	METAL GLAZE	82K	5%	1/10W
						R35	1-216-083-00	METAL GLAZE	27K	5%	1/10W
JR06	1-216-295-91	METAL GLAZE	0	5%	1/10W	R36	1-216-075-00	METAL GLAZE	12K	5%	1/10W
JR10	1-216-296-91	METAL GLAZE	0	5%	1/8W	R37	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JR11	1-216-296-91	METAL GLAZE	0	5%	1/8W	R38	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R01	1-216-031-00	METAL GLAZE	180	5%	1/10W	R39	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R02	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R40	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R03	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R41	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R04	1-216-041-00	METAL GLAZE	470	5%	1/10W	R42	1-216-174-00	METAL GLAZE	100	5%	1/8W
						R43	1-216-037-00	METAL GLAZE	330	5%	1/10W
						R44	1-216-037-00	METAL GLAZE	330	5%	1/10W

IF (KV-S2951A/S2951D/S2953E)
KV-S2951K/S2952U

IF (KV-S2953B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK					
R45	1-216-198-91	METAL GLAZE 1K 5% 1/8W (KV-S2951A/S2951D/S2953E/S2952U)		C134	1-163-239-11	CERAMIC CHIP 33PF	5% 50V					
	1-216-194-00	METAL GLAZE 680 5% 1/8W (KV-S2951K)		C135	1-124-477-11	ELECT 47MF	20% 16V					
R46	1-216-049-91	METAL GLAZE 1K 5% 1/10W		C141	1-163-249-11	CERAMIC CHIP 82PF	5% 50V					
R47	1-216-198-91	METAL GLAZE 1K 5% 1/8W		C143	1-163-251-11	CERAMIC CHIP 100PF	5% 50V					
R48	1-216-049-91	METAL GLAZE 1K 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)		C145	1-124-477-11	ELECT 47MF	20% 16V					
R49	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W		C151	1-124-477-11	ELECT 47MF	20% 16V					
R50	1-216-039-00	METAL GLAZE 390 5% 1/10W		C152	1-124-477-11	ELECT 47MF	20% 16V					
R51	1-216-039-00	METAL GLAZE 390 5% 1/10W (KV-S2951K)		C161	1-124-477-11	ELECT 47MF	20% 16V					
R52	1-216-039-00	METAL GLAZE 390 5% 1/10W (KV-S2951A/S2951D/S2953E/S2951K)		C162	1-124-477-11	ELECT 47MF	20% 16V					
R53	1-216-083-00	METAL GLAZE 27K 5% 1/10W (KV-S2951K)		C173	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V					
R54	1-216-075-00	METAL GLAZE 12K 5% 1/10W (KV-S2951K)		C174	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V					
R55	1-216-045-00	METAL GLAZE 680 5% 1/10W (KV-S2951K)		C175	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V					
R56	1-216-045-00	METAL GLAZE 680 5% 1/10W (KV-S2951K)		C177	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V					
R57	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-S2951A/S2951D/S2953E/S2952U)		C191	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V					
	1-216-043-91	METAL GLAZE 560 5% 1/10W (KV-S2951K)		C201	1-164-346-11	CERAMIC CHIP 1MF	16V					
R58	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		C202	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V					
R59	1-216-041-00	METAL GLAZE 470 5% 1/10W (KV-S2951K)		C203	1-124-477-11	ELECT 47MF	20% 16V					
R60	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W (KV-S2952U)		C204	1-164-346-11	CERAMIC CHIP 1MF	16V					
R61	1-216-025-91	METAL GLAZE 100 5% 1/10W (KV-S2951A/S2951D/S2953E/S2952U)		C205	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V					
< VARIABLE RESISTOR >												
RV01	1-241-786-11	RES, ADJ, CARBON 22K		C206	1-163-251-11	CERAMIC CHIP 100PF	5% 50V					

1-467-573-13 IF BLOCK (IFH-389FX) (KV-S2953B)												

< CAPACITOR >												
C101	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	CF171	1-567-100-00	FILTER, CERAMIC					
C102	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	CF172	1-567-101-11	FILTER, CERAMIC					
C104	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	CF173	1-760-107-21	FILTER, CERAMIC					
C111	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	CF174	1-760-106-21	FILTER, CERAMIC					
C112	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	SWF101	1-579-273-11	FILTER, SURFACE WAVE					
C113	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	SWF103	1-760-244-21	FILTER, SURFACE WAVE					
C114	1-124-925-11	ELECT 2.2MF	20%	50V	< CONNECTOR >							
C115	1-124-916-11	ELECT 22MF	20%	50V	CN1	1-750-919-11	PIN, CONNECTOR (PC BOARD)	10P				
C116	1-124-916-11	ELECT 22MF	20%	50V	CN2	1-750-919-11	PIN, CONNECTOR (PC BOARD)	10P				
C117	1-163-090-00	CERAMIC CHIP 7PF	0.25PF	50V	< TRIMMER >							
C120	1-124-925-11	ELECT 2.2MF	20%	50V	CT101	1-760-154-21	TRAP, CERAMIC					
C121	1-124-925-11	ELECT 2.2MF	20%	50V	CT131	1-409-430-11	TRAP, CERAMIC					
C122	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	< DIODE >							
C123	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	D101	8-719-914-43	DIODE DAN202K					
C126	1-163-085-00	CERAMIC CHIP 2PF	0.25PF	50V	D171	8-719-914-43	DIODE DAN202K					
C128	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	D201	8-719-914-43	DIODE DAN202K					
C131	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	IC1	8-759-193-13	IC TDA9815					
C132	1-163-097-00	CERAMIC CHIP 15PF	5%	50V	IC2	8-759-514-54	IC BA7046					
C133	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	IC3	8-752-069-79	IC CXA1875M					
					IC4	8-759-710-86	IC NJM2233BM					
< COIL >												
C129	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	L101	1-408-419-00	INDUCTOR	68UH				
C130	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	L102	1-410-985-11	INDUCTOR CHIP	0.22UH				
C131	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	L131	1-408-407-00	INDUCTOR	6.8UH				

IF (KV-S2953B)

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
L132	1-410-426-21	INDUCTOR	39UH		JR132	1-216-296-00	METAL GLAZE	0	5% 1/8W
L142	1-408-409-00	INDUCTOR	10UH		JR133	1-216-296-00	METAL GLAZE	0	5% 1/8W
L171	1-408-609-41	INDUCTOR	33UH		JR134	1-216-295-91	METAL GLAZE	0	5% 1/10W
L201	1-408-419-00	INDUCTOR	68UH		JR135	1-216-296-00	METAL GLAZE	0	5% 1/8W
L501	1-408-411-00	INDUCTOR	15UH		JR136	1-216-295-91	METAL GLAZE	0	5% 1/10W
L901	1-408-411-00	INDUCTOR	15UH		JR137	1-216-296-00	METAL GLAZE	0	5% 1/8W
< TRANSISTOR >									
Q101	8-729-104-80	TRANSISTOR	2SC3355		JR138	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q102	8-729-901-01	TRANSISTOR	DTC144EK		JR140	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q104	8-729-901-01	TRANSISTOR	DTC144EK		JR141	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q121	8-729-216-22	TRANSISTOR	2SA1162-G		JR142	1-216-295-91	METAL GLAZE	0	5% 1/10W
Q131	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR143	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q132	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR145	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q141	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR146	1-216-295-91	METAL GLAZE	0	5% 1/10W
Q142	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR150	1-216-295-91	METAL GLAZE	0	5% 1/10W
Q151	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR152	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q152	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR154	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q153	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR160	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q154	8-729-901-01	TRANSISTOR	DTC144EK		JR161	1-216-295-91	METAL GLAZE	0	5% 1/10W
Q161	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR162	1-216-295-91	METAL GLAZE	0	5% 1/10W
Q162	8-729-920-74	TRANSISTOR	2SC2412K-QR		JR166	1-216-295-91	METAL GLAZE	0	5% 1/10W
Q171	8-729-216-22	TRANSISTOR	2SA1162-G		JR167	1-216-296-00	METAL GLAZE	0	5% 1/8W
Q174	8-729-901-01	TRANSISTOR	DTC144EK		R100	1-216-025-00	METAL GLAZE	100	5% 1/10W
Q175	8-729-901-01	TRANSISTOR	DTC144EK		R102	1-216-059-00	METAL GLAZE	2.7K	5% 1/10W
Q176	8-729-901-01	TRANSISTOR	DTC144EK		R103	1-216-001-00	METAL GLAZE	10	5% 1/10W
Q181	8-729-920-74	TRANSISTOR	2SC2412K-QR		R104	1-216-176-11	METAL GLAZE	120	5% 1/8W
Q191	8-729-216-22	TRANSISTOR	2SA1162-G		R105	1-216-017-00	METAL GLAZE	47	5% 1/10W
Q201	8-729-216-22	TRANSISTOR	2SA1162-G		R106	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W
< RESISTOR >									
JR101	1-216-295-91	METAL GLAZE	0	5% 1/10W	R114	1-216-035-00	METAL GLAZE	270	5% 1/10W
JR102	1-216-296-00	METAL GLAZE	0	5% 1/8W	R115	1-216-035-00	METAL GLAZE	270	5% 1/10W
JR103	1-216-296-00	METAL GLAZE	0	5% 1/8W	R116	1-216-025-00	METAL GLAZE	100	5% 1/10W
JR104	1-216-295-91	METAL GLAZE	0	5% 1/10W	R117	1-216-031-00	METAL GLAZE	180	5% 1/10W
JR106	1-216-296-00	METAL GLAZE	0	5% 1/8W	R118	1-216-061-00	METAL GLAZE	3.3K	5% 1/10W
JR107	1-216-295-91	METAL GLAZE	0	5% 1/10W	R120	1-216-180-00	METAL GLAZE	180	5% 1/8W
JR109	1-216-295-91	METAL GLAZE	0	5% 1/10W	R131	1-216-198-91	METAL GLAZE	1K	5% 1/8W
JR110	1-216-295-91	METAL GLAZE	0	5% 1/10W	R133	1-216-031-00	METAL GLAZE	180	5% 1/10W
JR111	1-216-296-00	METAL GLAZE	0	5% 1/8W	R134	1-216-049-00	METAL GLAZE	1K	5% 1/10W
JR112	1-216-295-91	METAL GLAZE	0	5% 1/10W	R135	1-216-295-91	METAL GLAZE	0	5% 1/10W
JR113	1-216-296-00	METAL GLAZE	0	5% 1/8W	R136	1-216-041-00	METAL GLAZE	470	5% 1/10W
JR114	1-216-295-91	METAL GLAZE	0	5% 1/10W	R137	1-216-041-00	METAL GLAZE	470	5% 1/10W
JR115	1-216-295-91	METAL GLAZE	0	5% 1/10W	R138	1-216-049-00	METAL GLAZE	1K	5% 1/10W
JR116	1-216-296-00	METAL GLAZE	0	5% 1/8W	R139	1-216-067-00	METAL GLAZE	5.6K	5% 1/10W
JR117	1-216-296-00	METAL GLAZE	0	5% 1/8W	R140	1-216-295-91	METAL GLAZE	0	5% 1/10W
JR118	1-216-296-00	METAL GLAZE	0	5% 1/8W	R142	1-216-049-00	METAL GLAZE	1K	5% 1/10W
JR119	1-216-296-00	METAL GLAZE	0	5% 1/8W	R144	1-216-041-00	METAL GLAZE	470	5% 1/10W
JR120	1-216-295-91	METAL GLAZE	0	5% 1/10W	R145	1-216-041-00	METAL GLAZE	470	5% 1/10W
JR121	1-216-296-00	METAL GLAZE	0	5% 1/8W	R146	1-216-043-00	METAL GLAZE	560	5% 1/10W
JR122	1-216-296-00	METAL GLAZE	0	5% 1/8W	R147	1-216-025-00	METAL GLAZE	100	5% 1/10W
JR123	1-216-296-00	METAL GLAZE	0	5% 1/8W	R148	1-216-049-00	METAL GLAZE	1K	5% 1/10W
JR124	1-216-296-00	METAL GLAZE	0	5% 1/8W	R149	1-216-049-00	METAL GLAZE	1K	5% 1/10W
JR125	1-216-295-91	METAL GLAZE	0	5% 1/10W	R151	1-216-226-00	METAL GLAZE	15K	5% 1/8W
JR126	1-216-295-91	METAL GLAZE	0	5% 1/10W	R152	1-216-069-00	METAL GLAZE	6.8K	5% 1/10W
JR127	1-216-296-00	METAL GLAZE	0	5% 1/8W	R153	1-216-689-11	METAL GLAZE	39K	5% 1/10W
JR128	1-216-295-91	METAL GLAZE	0	5% 1/10W	R154	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W
JR129	1-216-295-91	METAL GLAZE	0	5% 1/10W	R155	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W
JR130	1-216-296-00	METAL GLAZE	0	5% 1/8W	R156	1-216-037-00	METAL GLAZE	330	5% 1/10W
JR131	1-216-296-00	METAL GLAZE	0	5% 1/8W	R161	1-216-079-00	METAL GLAZE	18K	5% 1/10W

The components identified by shading and marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

IF (KV-S295B)

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REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R162	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	C605	1-137-399-11	FILM	0.1MF	5%	50V
						C606	1-136-171-00	FILM	0.33MF	5%	50V
R163	1-216-689-11	METAL GLAZE	39K	5%	1/10W	C607	1-137-399-11	FILM	0.1MF	5%	50V
R164	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C608	1-164-625-11	CERAMIC	680PF	10%	500V
R165	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C609	1-129-718-00	FILM	0.022MF	5%	630V
R166	1-216-037-00	METAL GLAZE	330	5%	1/10W	C610	1-126-953-11	ELECT	2200MF	20%	35V
R167	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C611	1-126-953-11	ELECT	2200MF	20%	35V
R168	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W	C613	1-128-548-11	ELECT	4700MF	20%	25V
R169	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	C614	1-128-548-11	ELECT	4700MF	20%	25V
R171	1-216-045-00	METAL GLAZE	680	5%	1/10W	C615	1-110-626-11	ELECT	330MF	20%	160V
R177	1-216-025-00	METAL GLAZE	100	5%	1/10W	C616	1-164-625-11	CERAMIC	680PF	10%	500V
R178	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C617	1-136-559-11	MYLAR	0.0047MF	10%	400V
R179	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C618	1-104-889-91	MYLAR	0.0022MF	10%	400V
R180	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C619	1-136-165-00	FILM	0.1MF	5%	50V
R181	1-216-041-00	METAL GLAZE	470	5%	1/10W	C620	1-126-519-12	ELECT	47MF	20%	50V
R182	1-216-041-00	METAL GLAZE	470	5%	1/10W	C621	1-136-518-12	FILM	0.47MF	20%	300V
R183	1-216-192-00	METAL GLAZE	560	5%	1/8W	C622	1-136-415-51	FILM	0.33MF	20%	300V
R184	1-216-043-00	METAL GLAZE	560	5%	1/10W	C624	1-164-503-41	CERAMIC	0.0022MF	20%	400V
R185	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	C626	1-164-503-41	CERAMIC	0.0022MF	20%	400V
R191	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C627	1-126-940-11	ELECT	330MF	20%	25V
R192	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C628	1-126-965-11	ELECT	22MF	20%	50V
R193	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C629	1-162-599-12	CERAMIC	0.0047MF		250V
R194	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C630	1-162-599-12	CERAMIC	0.0047MF		250V
R195	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	C631	1-161-564-51	CERAMIC	0.0047MF		250V
R201	1-216-198-91	METAL GLAZE	1K	5%	1/8W	C633	1-125-555-11	ELECT	330MF	20%	400V
R202	1-216-107-00	METAL GLAZE	270K	5%	1/10W	C635	1-136-165-00	FILM	0.1MF	5%	50V
R203	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C636	1-136-165-00	FILM	0.1MF	5%	50V
R204	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C637	1-126-964-11	ELECT	10MF	20%	50V
R205	1-218-755-11	METAL CHIP	130K	0.50%	1/10W	C638	1-126-964-11	ELECT	10MF	20%	50V
R206	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C639	1-126-964-11	ELECT	10MF	20%	50V
R207	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C645	1-102-002-91	CERAMIC	680PF	10%	500V
R208	1-216-113-00	METAL GLAZE	470K	5%	1/10W	C646	1-136-171-00	FILM	0.33MF	5%	50V
R209	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C647	1-136-171-00	FILM	0.33MF	5%	50V
R210	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C650	1-126-964-11	ELECT	10MF	20%	50V
R211	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C651	1-136-171-00	FILM	0.33MF	5%	50V
R301	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C652	1-136-171-00	FILM	0.33MF	5%	50V
R302	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C653	1-136-169-00	FILM	0.22MF	5%	50V
R303	1-216-049-00	METAL GLAZE	1K	5%	1/10W	< CONNECTOR >					
R306	1-216-049-00	METAL GLAZE	1K	5%	1/10W	CN0008	1-508-786-11	PIN, CONNECTOR (5MM PITCH)	2P		
R308	1-216-073-00	METAL GLAZE	10K	5%	1/10W	CN0009	1-508-765-11	PIN, CONNECTOR (5MM PITCH)	3P		
R309	1-216-025-00	METAL GLAZE	100	5%	1/10W	CN0701	*1-564-516-11	PLUG, CONNECTOR 13P			
R310	1-216-025-00	METAL GLAZE	100	5%	1/10W	CN0722	*1-561-291-11	PIN, CONNECTOR (PC BOARD)	5P		
< VARIABLE RESISTOR >											
RV111	1-241-786-11	RES, ADJ, CARBON 22K				< DIODE >					
RV112	1-241-765-11	RES, ADJ, CARBON 22K				D601	8-719-510-53	DIODE D4SB60L			
< TRANSFORMER >											
T111	1-403-686-22	COIL				D602	8-719-991-33	DIODE 1SS13T-77			

*A-1636-010-A G BOARD, COMPLETE											

4-368-683-21 SPRING, TRANSISTOR											
4-382-854-11 SCREW (M3X10), P, SW (+)											
< CAPACITOR >											
C602	1-165-127-11	CERAMIC	470PF	10%	500V	D608	8-719-510-12	DIODE D10SC4M			
C603	1-165-127-11	CERAMIC	470PF	10%	500V	D609	8-719-047-31	DIODE RBA-402L			
C604	1-136-171-00	FILM	0.33MF	5%	50V	D610	8-719-510-64	DIODE S2LA20F			
						D612	8-719-911-19	DIODE 1SS119-25			
						D613	8-719-911-19	DIODE 1SS119-25			
						D614	8-719-911-19	DIODE 1SS119-25			
						D615	8-719-911-19	DIODE 1SS119-25			
						D616	8-719-911-19	DIODE 1SS119-25			
						D617	8-719-911-19	DIODE 1SS119-25			
						D618	8-719-911-19	DIODE 1SS119-25			

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D619	8-719-911-19	DIODE 1SS119-25		R601	1-202-933-61	FUSIBLE	0.1 10% 1/2W F
D620	8-719-911-19	DIODE 1SS119-25		R602	1-247-891-00	CARBON	330K 5% 1/4W
D621	8-719-911-19	DIODE 1SS119-25		R603	1-247-891-00	CARBON	330K 5% 1/4W
D622	8-719-510-64	DIODE S2LA20F		R604	1-216-369-00	METAL OXIDE	1 5% 2W F
D623	8-719-510-64	DIODE S2LA20F		R605	1-247-891-00	CARBON	330K 5% 1/4W
D624	8-719-312-39	DIODE R2K-V1		R606	1-247-891-00	CARBON	330K 5% 1/4W
D625	8-719-911-19	DIODE 1SS119-25		R607	1-216-369-00	METAL OXIDE	1 5% 2W F
D626	8-719-911-19	DIODE 1SS119-25		R608	1-247-887-00	CARBON	220K 5% 1/4W
D627	8-719-911-19	DIODE 1SS119-25		R609	1-249-429-11	CARBON	10K 5% 1/4W F
D628	8-719-911-19	DIODE 1SS119-25		R610	1-249-419-11	CARBON	1.5K 5% 1/4W F
D630	8-719-991-33	DIODE 1SS133T-77		R616	A 1-205-949-11	WIREWOUND	1.8 5% 10W
D631	8-719-991-33	DIODE 1SS133T-77		R618	A 1-205-949-11	WIREWOUND	1.8 5% 10W
D632	8-719-991-33	DIODE 1SS133T-77		R619	A 1-244-945-91	CARBON	1M 5% 1/2W
D633	8-719-991-33	DIODE 1SS133T-77		R620	A 1-219-265-91	METAL	8.2M 5% 1W
D634	8-719-991-33	DIODE 1SS133T-77		R621	1-249-417-11	CARBON	1K 5% 1/4W F
< FERRITE BEAD >							
FB603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R622	1-249-430-11	CARBON	12K 5% 1/4W
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		R623	1-249-436-11	CARBON	39K 5% 1/4W
< IC >							
IC601	1-810-051-11	POWER MODULE DM-48		R624	1-249-425-11	CARBON	4.7K 5% 1/4W
IC602	8-749-010-44	PROTO COUPLED PC1211PZ		R625	1-247-815-91	CARBON	220 5% 1/4W
< COIL >							
L601	1-412-525-41	INDUCTOR 10UH		R626	1-247-863-91	CARBON	22K 5% 1/4W
L602	1-412-525-41	INDUCTOR 10UH		R627	1-247-815-91	CARBON	220 5% 1/4W
L603	1-412-525-41	INDUCTOR 10UH		R628	1-249-411-11	CARBON	330 5% 1/4W
L605	1-412-523-11	INDUCTOR 6.8UH		R630	1-249-429-11	CARBON	10K 5% 1/4W
L606	1-412-523-11	INDUCTOR 6.8UH		R631	1-215-477-00	METAL	220K 1% 1/4W
< TRANSFORMER >							
T601	1-424-435-11	TRANSFORMER LINE FILTER		R632	1-249-417-11	CARBON	1K 5% 1/4W
T601	A 1-429-358-11	TRANSFORMER CONVERTER (PTT)		R633	1-249-429-11	CARBON	10K 5% 1/4W
T602	A 1-427-864-11	TRANSFORMER CONVERTER (PRT)		R634	1-247-895-91	CARBON	470K 5% 1/4W
< IC LINK >							
PS601	A 1-532-686-91	LINK IC (ICP-N75) 2.7A		R635	1-249-417-11	CARBON	1K 5% 1/4W
PS602	A 1-532-686-91	LINK IC (ICP-N75) 2.7A		R636	1-207-905-00	WIREWOUND	0.27 10% 2W F
PS604	A 1-532-686-91	LINK IC (ICP-N75) 2.7A		R637	1-249-389-11	CARBON	4.7 5% 1/4W F
PS605	A 1-532-845-21	LINK IC (PRF4000) 4A		R638	1-249-425-11	CARBON	4.7K 5% 1/4W
< TRANSISTOR >							
Q601	8-729-032-87	TRANSISTOR 2SC4834NP-F09		R639	1-247-791-91	CARBON	22 5% 1/4W
Q602	8-729-032-87	TRANSISTOR 2SC4834NP-F09		R640	1-247-791-91	CARBON	22 5% 1/4W
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE		R641	1-247-791-91	CARBON	22 5% 1/4W
Q604	8-729-200-21	TRANSISTOR 2SC2500-B		R642	1-247-791-91	CARBON	22 5% 1/4W
Q605	8-729-173-38	TRANSISTOR 2SA733-K		R644	1-249-425-11	CARBON	4.7K 5% 1/4W
Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE		R645	1-249-415-11	CARBON	680 5% 1/4W
Q607	8-729-029-56	TRANSISTOR DTA144ESA		R646	1-249-403-11	CARBON	68 5% 1/4W
Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE		R647	1-249-429-11	CARBON	10K 5% 1/4W
Q610	8-729-173-38	TRANSISTOR 2SA733-K		R651	1-215-880-00	METAL OXIDE	10 5% 2W F
Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE		R652	1-247-891-00	CARBON	330K 5% 1/4W
Q612	8-729-173-38	TRANSISTOR 2SA733-K		R653	1-247-891-00	CARBON	330K 5% 1/4W
Q613	8-729-030-03	TRANSISTOR DTC144ESA-TP		R654	1-247-891-00	CARBON	330K 5% 1/4W
Q614	8-729-029-56	TRANSISTOR DTA144ESA		R655	1-247-891-00	CARBON	68K 5% 1/4W
Q615	8-729-200-21	TRANSISTOR 2SC2500-B		R657	1-249-429-11	CARBON	10K 5% 1/4W
Q616	8-729-030-03	TRANSISTOR DTC144ESA-TP		R658	1-249-421-11	CARBON	2.2K 5% 1/4W
Q617	8-729-029-56	TRANSISTOR DTA144ESA		R659	1-249-425-11	CARBON	4.7K 5% 1/4W
< RELAY >							
RY601	1-515-720-31	RELAY		R660	1-249-429-11	CARBON	10K 5% 1/4W

The components identified by shading and marked **A** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifique.

The components identified by shading and marked **A** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

G **C** **D**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
< THERMISTOR >											
TEP601	1-809-827-11	THERMISTOR, POSITIVE		Q706	8-729-326-11	TRANSISTOR 2SC2611					
< VARISTOR >											
VDR601	1-810-977-11	VARISTOR		Q707	8-729-200-17	TRANSISTOR 2SA1091-O					

*A-1638-071-A C BOARD, COMPLETE											

4-382-854-11 SCREW (M3X10), P, SW (+)											
< CAPACITOR >											
C701	1-162-114-00	CERAMIC	0.0047MF	2KV	R701	1-202-846-00	SOLID	470K 20% 1/2W			
C703	1-107-651-11	ELECT	4.7MF	20%	R702	1-202-838-00	SOLID	100K 20% 1/2W			
C711	1-101-880-00	CERAMIC	47PF	5%	R703	1-202-838-00	SOLID	100K 20% 1/2W			
C712	1-102-978-00	CERAMIC	220PF	5%	R705	1-249-377-11	CARBON	0.47 5% 1/4W F			
C713	1-102-980-00	CERAMIC	270PF	5%	R706	1-249-377-11	CARBON	0.47 5% 1/4W F			
C714	1-102-980-00	CERAMIC	270PF	5%	R707	1-249-416-11	CARBON	820 5% 1/4W			
C716	1-128-526-11	ELECT	100MF	20%	R708	1-249-416-11	CARBON	820 5% 1/4W			
C720	1-162-116-00	CERAMIC	680PF	10%	R709	1-249-416-11	CARBON	820 5% 1/4W			
< CONNECTOR >											
CN0003	1-695-915-11	TAB (CONTACT)		R710	1-215-922-11	METAL OXIDE	6.8K 5% 3W F				
CN0004	1-695-915-11	TAB (CONTACT)		R711	1-202-549-00	SOLID	100 20% 1/2W				
CN0411	*1-568-882-11	PIN, CONNECTOR 7P		R712	1-215-922-11	METAL OXIDE	6.8K 5% 3W F				
CN0421	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		R713	1-202-549-00	SOLID	100 20% 1/2W				
< DIODE >											
D701	8-719-991-33	DIODE 1SS133T-77		R714	1-215-922-11	METAL OXIDE	6.8K 5% 3W F				
D702	8-719-991-33	DIODE 1SS133T-77		R715	1-202-549-00	SOLID	100 20% 1/2W				
D703	8-719-991-33	DIODE 1SS133T-77		R716	1-249-405-11	CARBON	100 5% 1/4W F				
D704	8-719-991-33	DIODE 1SS133T-77		R717	1-249-405-11	CARBON	100 5% 1/4W F				
D705	8-719-991-33	DIODE 1SS133T-77		R718	1-249-405-11	CARBON	100 5% 1/4W F				
D706	8-719-991-33	DIODE 1SS133T-77		R725	1-249-421-11	CARBON	2.2K 5% 1/4W				
D707	8-719-991-33	DIODE 1SS133T-77		R726	1-249-421-11	CARBON	2.2K 5% 1/4W				
D708	8-719-991-33	DIODE 1SS133T-77		R727	1-249-421-11	CARBON	2.2K 5% 1/4W				
D709	8-719-991-33	DIODE 1SS133T-77		R728	1-249-407-11	CARBON	150 5% 1/4W				
D714	8-719-109-97	DIODE RD6.8ES-B2		R729	1-249-407-11	CARBON	150 5% 1/4W				
D715	8-719-018-82	DIODE RGP02-20EL-6394		R730	1-249-407-11	CARBON	150 5% 1/4W				
< CRT SOCKET >											
J701	1-526-990-11	SOCKET, CRT		R731	1-247-791-91	CARBON	22 5% 1/4W				
< COIL >											
L701	1-408-413-00	INDUCTOR	22UH	R732	1-247-791-91	CARBON	22 5% 1/4W				
L702	1-408-413-00	INDUCTOR	22UH	R733	1-247-791-91	CARBON	22 5% 1/4W				
L703	1-408-409-00	INDUCTOR	10UH	R734	1-202-549-00	SOLID	100 20% 1/2W				
L704	1-408-413-00	INDUCTOR	22UH	R738	1-249-401-11	CARBON	47 5% 1/4W				
L705	1-408-409-00	INDUCTOR	10UH	R739	1-249-401-11	CARBON	47 5% 1/4W				
L706	1-408-413-00	INDUCTOR	22UH	R740	1-249-401-11	CARBON	47 5% 1/4W				
L707	1-408-409-00	INDUCTOR	10UH	R743	1-249-435-11	CARBON	33K 5% 1/4W				
< TRANSISTOR >											
Q701	8-729-326-11	TRANSISTOR 2SC2611		R747	1-216-489-11	METAL OXIDE	27K 5% 3W F				
Q702	8-729-326-11	TRANSISTOR 2SC2611		R749	1-216-489-11	METAL OXIDE	27K 5% 3W F				
Q703	8-729-326-11	TRANSISTOR 2SC2611		R751	1-216-489-11	METAL OXIDE	27K 5% 3W F				
Q704	8-729-326-11	TRANSISTOR 2SC2611		R753	1-249-429-11	CARBON	10K 5% 1/4W				
Q705	8-729-326-11	TRANSISTOR 2SC2611		R767	1-249-437-11	CARBON	47K 5% 1/4W				
< VARIABLE RESISTOR >											
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		R768	1-249-417-11	CARBON	1K 5% 1/4W				
RV702	1-241-714-11	RES, ADJ, METAL FILM 110M		*****							
*A-1640-183-A D BOARD, COMPLETE											

4-200-399-01 SPACER, IC											
4-382-854-11 SCREW (M3X10), P, SW (+)											

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
< CAPACITOR >								
C801	1-123-024-21	ELECT	33MF	160V	FB803	1-410-396-51	FERRITE BEAD INDUCTOR 0.45UH	
C802	1-136-207-11	FILM	0.047MF	10% 250V	< IC >			
C804	1-163-001-11	CERAMIC CHIP	220PF	10% 50V	IC801	8-759-103-93	IC UPC393C	
C805	1-102-030-00	CERAMIC	330PF	10% 500V	< COIL >			
C808	1-162-116-00	CERAMIC	680PF	10% 2KV	L801	1-459-123-00	COIL, DUST CORE (PAC)	
C809	1-162-116-00	CERAMIC	680PF	10% 2KV	L802	1-459-123-00	COIL, DUST CORE (PAC)	
C810	1-106-367-00	MYLAR	0.01MF	10% 400V	L803	1-459-123-00	COIL, DUST CORE (PAC)	
C811	1-109-948-11	FILM	0.0015MF	3% 1.8KV	L811	1-459-104-00	COIL, WITH CORE	
C812	1-129-722-00	FILM	0.047MF	5% 630V	L813	1-459-104-00	COIL, WITH CORE	
C813	1-109-961-11	FILM	0.75MF	5% 400V	< TRANSISTOR >			
C814	1-129-702-00	FILM	0.001MF	10% 400V	L814	1-422-613-11	COIL, AIR CORE	
C816	1-110-969-11	FILM	0.89MF	5% 400V	L815	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
C819	1-137-104-91	FILM	0.033MF	10% 250V	L816	1-408-947-00	INDUCTOR 2.2MMH	
C822	1-126-967-11	ELECT	47MF	20% 50V	< RESISTOR >			
C823	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	Q801	8-729-119-80	TRANSISTOR 2SC2688-LK	
C824	1-162-117-00	CERAMIC	100PF	10% 500V	Q802	8-729-821-07	TRANSISTOR 2SC3997CA	
C825	1-126-964-91	ELECT	10MF	20% 50V	Q803	8-729-931-45	TRANSISTOR IRF614	
C827	1-102-228-00	CERAMIC	470PF	10% 500V	< CONNECTOR >			
C835	1-107-655-11	ELECT	47MF	20% 250V	JR502	1-216-295-91	METAL GLAZE 0 5% 1/10W	
C836	1-102-228-00	CERAMIC	470PF	10% 500V	JR503	1-216-295-91	METAL GLAZE 0 5% 1/10W	
C837	1-102-228-00	CERAMIC	470PF	10% 500V	JR504	1-216-295-91	METAL GLAZE 0 5% 1/10W	
C838	1-102-228-00	CERAMIC	470PF	10% 500V	R802	1-215-916-00	METAL OXIDE 680 5% 3W F	
C839	1-126-941-11	ELECT	470MF	20% 25V	R803	1-215-916-00	METAL OXIDE 680 5% 3W F	
C840	1-126-941-11	ELECT	470MF	20% 25V	R804	1-215-916-00	METAL OXIDE 680 5% 3W F	
C841	1-106-375-12	MYLAR	0.022MF	10% 250V	R805	1-215-923-00	METAL OXIDE 10K 5% 3W F	
C842	1-136-559-11	MYLAR	0.0047MF	10% 400V	R806	1-216-037-00	METAL GLAZE 330 5% 1/10W	
C863	1-163-037-11	CERAMIC CHIP	0.022MF	10% 25V	R807	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C873	1-162-115-00	CERAMIC	330PF	10% 2KV	R808	1-216-385-11	METAL OXIDE 0.47 5% 3W F	
C874	1-164-645-11	CERAMIC	1000PF	10% 500V	R809	1-215-880-00	METAL OXIDE 10 5% 2W F	
C875	1-163-275-11	CERAMIC CHIP	0.001MF	5% 50V	R810	1-215-914-11	METAL OXIDE 330 5% 3W F	
C892	1-163-009-11	CERAMIC CHIP	0.001MF	10% 50V	R811	1-216-434-11	METAL OXIDE 1.8K 5% 1W F	
< CONNECTOR >								
CN0009	1-568-878-51	PIN, CONNECTOR 3P			R817	1-202-972-61	FUSIBLE 1 5% 1/4W F	
CN0501	*1-564-516-11	PLUG, CONNECTOR 13P			R818	1-249-377-11	CARBON 0.47 5% 1/4W F	
CN0503	1-764-607-11	CONNECTOR, BOARD TO BOARD 8P			R819	1-249-377-11	CARBON 0.47 5% 1/4W F	
CN0504	1-764-607-11	CONNECTOR, BOARD TO BOARD 8P			R820	1-214-907-00	METAL 56K 1% 1/2W	
CN0505	1-764-607-11	CONNECTOR, BOARD TO BOARD 8P			R821	1-249-428-11	CARBON 8.2K 5% 1/4W	
CN0521	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P			R823	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P			R835	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
< DIODE >								
D802	8-719-979-99	DIODE ERD08M-15			R837	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
D803	8-719-043-14	DIODE ESAD39M-06C			R842	1-249-887-11	CARBON 33 5% 1/4W F	
D804	8-719-971-20	DIODE ERC38-06			R843	1-202-822-00	SOLID 2.2K 20% 1/2W	
D805	8-719-908-03	DIODE GP08D			R844	1-249-424-11	CARBON 3.9K 5% 1/4W	
D806	8-719-908-03	DIODE GP08D			R845	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
D811	8-719-302-43	DIODE EL1Z			R850	1-249-389-11	CARBON 4.7 5% 1/4W F	
D812	8-719-510-26	DIODE D1NL20			R851	1-216-374-00	METAL OXIDE 2.7 5% 2W F	
D813	8-719-510-26	DIODE D1NL20			R852	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
D815	8-719-110-13	DIODE RD9.1ESB2			R853	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
D874	8-719-914-42	DIODE DA204K			R854	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
< FERRITE BEAD >								
FB801	1-410-396-51	FERRITE BEAD INDUCTOR 0.45UH			R855	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
FB802	1-410-396-51	FERRITE BEAD INDUCTOR 0.45UH			R856	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
					R857	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
					R858	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
					R859	1-202-822-00	SOLID 2.2K 20% 1/2W	
					R894	1-216-295-91	METAL GLAZE 0 5% 1/10W	
					R895	1-215-866-11	METAL OXIDE 330 5% 1W F	
					R896	1-216-295-91	METAL GLAZE 0 5% 1/10W	

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D

VM

H1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R897	1-216-295-91	METAL GLAZE	270K 5% 1/10W	Q1840	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R898	1-216-115-00	METAL GLAZE	560K 5% 1/10W	Q1841	8-729-017-06	TRANSISTOR 2SC4793	
R899	1-216-117-00	METAL GLAZE	680K 5% 1/10W				
< TRANSFORMER >							
T801	1-427-762-11	TRANSFORMER, FERRITE (HDT)		R1701	1-249-417-11	CARBON	1K 5% 1/4W
T803	1-426-897-11	TRANSFORMER, FERRITE (PMT)		R1702	1-249-417-11	CARBON	1K 5% 1/4W
T804	1-429-287-11	COIL, HORIZONTAL LINEARITY		R1703	1-249-421-11	CARBON	2.2K 5% 1/4W
T805	1-453-107-11	TRANSFORMER ASSY, FLYBACK (NK-2661/U35)		R1704	1-249-415-11	CARBON	680 5% 1/4W
T806	1-413-059-00	TRANSFORMER, FERRITE (DFT)		R1705	1-247-791-91	CARBON	22 5% 1/4W

*A-1644-065-A		VM BOARD, COMPLETE		R1706	1-247-791-91	CARBON	22 5% 1/4W

*4-368-683-21		SPRING, TRANSISTOR		R1707	1-247-807-31	CARBON	100 5% 1/4W
4-382-854-11		SCREW (M3X10), P, SW (+)		R1708	1-249-410-11	CARBON	270 5% 1/4W
< CAPACITOR >							
C1701	1-126-933-11	ELECT	100MF 20% 16V	R1709	1-249-401-11	CARBON	47 5% 1/4W
C1702	1-102-074-00	CERAMIC	0.001MF 10% 50V	R1710	1-249-401-11	CARBON	47 5% 1/4W
C1703	1-126-933-11	ELECT	100MF 20% 16V	R1711	1-249-429-11	CARBON	10K 5% 1/4W
C1704	1-126-933-11	ELECT	100MF 20% 16V	R1712	1-260-311-11	CARBON	39 5% 1/2W
C1705	1-107-638-11	ELECT	33MF 20% 160V	R1713	1-249-384-11	CARBON	1.8 5% 1/4W F
C1706	1-104-999-11	FILM	0.1MF 5% 200V	R1714	1-249-414-11	CARBON	560 5% 1/4W F
C1707	1-104-989-91	FILM	0.0022MF 5% 200V	R1715	1-249-432-11	CARBON	18K 5% 1/4W F
C1708	1-137-364-11	FILM	0.001MF 5% 50V	R1716	1-249-417-11	CARBON	1K 5% 1/4W F
C1709	1-137-364-11	FILM	0.001MF 5% 50V	R1717	1-216-476-11	METAL OXIDE	180 5% 3W F
C1720	1-107-667-11	ELECT	2.2MF 20% 160V	R1718	1-249-432-11	CARBON	18K 5% 1/4W F
C1721	1-104-989-91	FILM	0.0022MF 5% 200V	R1719	1-249-384-11	CARBON	1.8 5% 1/4W F
C1722	1-128-581-11	ELECT	4.7MF 20% 100V	R1720	1-249-400-11	CARBON	39 5% 1/4W F
C1723	1-161-830-00	CERAMIC	0.0047MF 500V	R1721	1-249-414-11	CARBON	560 5% 1/4W
C1841	1-130-481-00	FILM	0.0068MF 5% 50V	R1722	1-249-401-11	CARBON	47 5% 1/4W
C1844	1-106-367-00	MYLAR	0.01MF 10% 400V	R1723	1-249-426-11	CARBON	5.6K 5% 1/4W
C1845	1-106-220-00	MYLAR	0.1MF 10% 100V	R1841	1-247-871-91	CARBON	47K 5% 1/4W

< CONNECTOR >							
CN1015	*1-568-881-51	PIN, CONNECTOR 6P		*****			
< DIODE >							
D1701	8-719-991-33	DIODE 1SS133T-77		*****			
D1702	8-719-110-88	DIODE RD39ESB2		*****			
D1703	8-719-110-88	DIODE RD39ESB2		*****			
D1840	8-719-302-43	DIODE EL1Z		*****			
D1841	8-719-991-33	DIODE 1SS133T-77		*****			
< COIL >							
L1701	1-408-603-41	INDUCTOR	10UH	< CONNECTOR >			
L1702	1-408-597-41	INDUCTOR	3.3UH	*****			
L1703	1-408-603-41	INDUCTOR	10UH	*****			
L1841	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		*****			
L1843	1-459-104-00	COIL, WITH CORE		*****			
< TRANSISTOR >							
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE		< CONNECTOR >			
Q1702	8-729-119-78	TRANSISTOR 2SC2785-HFE		*****			
Q1703	8-729-017-05	TRANSISTOR 2SA1837		*****			
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE		< CAPACITOR >			
Q1705	8-729-173-38	TRANSISTOR 2SA733-K		C081	1-102-973-00	CERAMIC	100PF 5% 50V
Q1706	8-729-017-06	TRANSISTOR 2SC4793		C082	1-102-973-00	CERAMIC	100PF 5% 50V
Q1707	8-729-255-12	TRANSISTOR 2SC2551-0		C083	1-101-005-00	CERAMIC	0.022MF 50V
< COIL >				C087	1-101-005-00	CERAMIC	0.022MF 50V
< RESISTOR >							
L081	1-408-409-00	INDUCTOR	10UH	< CONNECTOR >			
L082	1-408-409-00	INDUCTOR	10UH	*****			
< RESISTOR >							
R081	1-249-429-11	CARBON	10K 5% 1/4W	< CONNECTOR >			
R082	1-249-425-11	CARBON	4.7K 5% 1/4W	*****			
R083	1-249-421-11	CARBON	2.2K 5% 1/4W	*****			
R084	1-249-419-11	CARBON	1.5K 5% 1/4W	*****			

H1 **H2** **J**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R085	1-249-419-11	CARBON	1.5K 5% 1/4W	C905	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
< SWITCH >							
S081	1-571-532-21	SWITCH, TACTIL		C906	1-101-004-00	CERAMIC 0.01MF	50V
S082	1-571-532-21	SWITCH, TACTIL		C907	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
S083	1-571-532-21	SWITCH, TACTIL		C908	1-163-129-00	CERAMIC CHIP 330PF	5% 50V

*A-1646-100-A H2 BOARD, COMPLETE				C909	1-101-004-00	CERAMIC 0.01MF	50V

*4-374-987-01 GUIDE, LIGHT				C910	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
4-381-686-01 BRACKET (B), LIGHT GUIDE				C911	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
< CONNECTOR >							
CN1214	*1-564-511-11	PLUG, CONNECTOR 8P		C912	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
< DIODE >							
D092	8-719-948-31	DIODE LD-201VR		C913	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
*4-201-076-01 HOLDER, LED ; D092				C914	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
D093	8-719-948-31	DIODE LD-201VR		C915	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
*4-201-076-01 HOLDER, LED ; D093				C916	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
D094	8-719-948-31	DIODE LD-201VR		C917	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
*4-201-076-01 HOLDER, LED ; D094				C918	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
< IC >							
IC091	8-741-810-11	IC SBX1810-11		C919	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
< RESISTOR >							
R091	1-249-413-11	CARBON	470 5% 1/4W	C920	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V

*A-1651-074-A J BOARD, COMPLETE				C921	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V

< CAPACITOR >							
C270	1-163-063-00	CERAMIC CHIP 0.022MF	50V	CN0806	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C271	1-163-063-00	CERAMIC CHIP 0.022MF	50V	CN0807	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
C273	1-101-003-00	CERAMIC 0.0047MF	50V	CN0823	1-564-524-11	PLUG, CONNECTOR 9P	
C274	1-101-003-00	CERAMIC 0.0047MF	50V	CN0824	*1-564-518-11	PLUG, CONNECTOR 3P	
C275	1-101-005-00	CERAMIC 0.022MF	50V	CN0825	*1-564-518-11	PLUG, CONNECTOR 3P	
< DIODE >							
C290	1-101-005-00	CERAMIC 0.022MF	50V	D401	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C295	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D403	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C296	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D405	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C401	1-164-005-11	CERAMIC CHIP 0.47MF	16V	D406	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C402	1-126-933-11	ELECT 100MF	20% 16V	D407	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C403	1-164-005-11	CERAMIC CHIP 0.47MF	16V	D901	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C410	1-126-966-11	ELECT 33MF	20% 50V	D902	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C421	1-126-967-11	ELECT 47MF	20% 50V	D903	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C422	1-126-967-11	ELECT 47MF	20% 50V	D904	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C423	1-163-031-11	CERAMIC CHIP 0.01MF	50V	D905	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C424	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	D906	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C425	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	D907	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C426	1-126-967-11	ELECT 47MF	20% 16V	D908	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C427	1-164-346-11	CERAMIC CHIP 1MF	16V	D909	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C428	1-164-346-11	CERAMIC CHIP 1MF	16V	D910	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C429	1-126-940-11	ELECT 330MF	20% 16V	D911	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C901	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	D913	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C902	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	D914	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C904	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	D915	8-719-923-60	DIODE MTZJ-T-77-9.1A	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D916	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR408	1-216-295-91	METAL GLAZE	0 5% 1/10W
D917	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR901	1-216-295-91	METAL GLAZE	0 5% 1/10W
D919	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR905	1-216-296-91	METAL GLAZE	0 5% 1/8W
D920	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR907	1-216-296-91	METAL GLAZE	0 5% 1/8W
D921	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR908	1-216-296-91	METAL GLAZE	0 5% 1/8W
D922	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR909	1-216-295-91	METAL GLAZE	0 5% 1/10W
D923	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR910	1-216-296-91	METAL GLAZE	0 5% 1/8W
D924	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR911	1-216-295-91	METAL GLAZE	0 5% 1/8W
D925	8-719-923-60	DIODE MTZJ-T-77-9.1A		R283	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D926	8-719-923-60	DIODE MTZJ-T-77-9.1A		R284	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D927	8-719-923-60	DIODE MTZJ-T-77-9.1A		R285	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D928	8-719-923-60	DIODE MTZJ-T-77-9.1A		R286	1-216-073-00	METAL GLAZE	10K 5% 1/10W
D930	8-719-923-60	DIODE MTZJ-T-77-9.1A		R291	1-216-190-00	METAL GLAZE	470 5% 1/8W
D931	8-719-923-60	DIODE MTZJ-T-77-9.1A		R292	1-216-190-00	METAL GLAZE	470 5% 1/8W
D932	8-719-923-60	DIODE MTZJ-T-77-9.1A		R293	1-216-216-00	METAL GLAZE	5.6K 5% 1/8W
		< IC >		R294	1-216-216-00	METAL GLAZE	5.6K 5% 1/8W
IC401	8-752-068-46	IC CXA1855S		R401	1-216-158-00	METAL GLAZE	22 5% 1/8W
IC402	8-759-073-00	IC TEA2114		R403	1-216-025-91	METAL GLAZE	100 5% 1/10W
		< SOCKET >		R404	1-216-158-00	METAL GLAZE	22 5% 1/8W
J291	1-537-979-11	TERMINAL BOARD		R405	1-216-025-91	METAL GLAZE	100 5% 1/10W
J292	1-537-978-11	TERMINAL BOARD		R406	1-216-158-00	METAL GLAZE	22 5% 1/8W
J901	1-695-296-11	TERMINAL BLOCK, S		R407	1-216-025-91	METAL GLAZE	100 5% 1/10W
J903	1-561-534-41	SOCKET, PIN 21P		R410	1-216-174-00	METAL GLAZE	100 5% 1/8W
J904	1-695-296-11	TERMINAL BLOCK, S		R411	1-216-174-00	METAL GLAZE	100 5% 1/8W
J905	1-695-293-11	SOCKET 21P		R412	1-216-022-00	METAL GLAZE	75 5% 1/10W
J906	1-695-296-11	TERMINAL BLOCK, S		R413	1-216-022-00	METAL GLAZE	75 5% 1/10W
J907	1-695-293-11	SOCKET 21P		R414	1-216-022-00	METAL GLAZE	75 5% 1/10W
		< COIL >		R416	1-216-113-00	METAL GLAZE	470K 5% 1/10W
L284	1-402-711-11	INDUCTOR, WIDEBAND		R417	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
L291	1-402-711-11	INDUCTOR, WIDEBAND		R419	1-216-113-00	METAL GLAZE	470K 5% 1/10W
L292	1-402-711-11	INDUCTOR, WIDEBAND		R420	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
L294	1-402-711-11	INDUCTOR, WIDEBAND		R421	1-216-171-00	METAL GLAZE	75 5% 1/8W
L295	1-402-711-11	INDUCTOR, WIDEBAND		R423	1-216-015-00	METAL GLAZE	39 5% 1/10W
L296	1-402-711-11	INDUCTOR, WIDEBAND		R424	1-216-174-00	METAL GLAZE	100 5% 1/8W
		< TRANSISTOR >		R425	1-216-174-00	METAL GLAZE	100 5% 1/8W
Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR		R428	1-249-393-11	CARBON	10 5% 1/10W F
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR		R429	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR		R430	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR		R431	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
		< RESISTOR >		R432	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR285	1-216-295-91	METAL GLAZE	0 5% 1/10W	R433	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR288	1-216-296-91	METAL GLAZE	0 5% 1/8W	R434	1-216-049-91	METAL GLAZE	1K 5% 1/10W
JR291	1-216-295-91	METAL GLAZE	0 5% 1/10W	R435	1-216-049-91	METAL GLAZE	1K 5% 1/10W
JR292	1-216-295-91	METAL GLAZE	0 5% 1/10W	R436	1-216-049-91	METAL GLAZE	1K 5% 1/10W
JR294	1-216-295-91	METAL GLAZE	0 5% 1/10W	R437	1-216-049-91	METAL GLAZE	1K 5% 1/10W
JR296	1-216-295-91	METAL GLAZE	0 5% 1/10W	R438	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR297	1-216-296-91	METAL GLAZE	0 5% 1/8W	R439	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR298	1-216-296-91	METAL GLAZE	0 5% 1/8W	R440	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR401	1-216-295-91	METAL GLAZE	0 5% 1/10W	R901	1-216-039-00	METAL GLAZE	390 5% 1/10W
JR402	1-216-295-91	METAL GLAZE	0 5% 1/10W	R902	1-216-039-00	METAL GLAZE	390 5% 1/10W
JR403	1-216-295-91	METAL GLAZE	0 5% 1/10W	R903	1-216-113-00	METAL GLAZE	470K 5% 1/10W
JR404	1-216-295-91	METAL GLAZE	0 5% 1/10W	R904	1-216-113-00	METAL GLAZE	470K 5% 1/10W
JR405	1-216-295-91	METAL GLAZE	0 5% 1/10W	R905	1-216-039-00	METAL GLAZE	390 5% 1/10W
JR406	1-216-295-91	METAL GLAZE	0 5% 1/10W	R906	1-216-039-00	METAL GLAZE	390 5% 1/10W
JR407	1-216-295-91	METAL GLAZE	0 5% 1/10W	R907	1-216-171-00	METAL GLAZE	75 5% 1/8W
JR408	1-216-295-91	METAL GLAZE	0 5% 1/10W	R908	1-216-171-00	METAL GLAZE	75 5% 1/8W
JR409	1-216-295-91	METAL GLAZE	0 5% 1/10W	R909	1-216-113-00	METAL GLAZE	470K 5% 1/10W
JR410	1-216-295-91	METAL GLAZE	0 5% 1/10W	R910	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
JR411	1-216-295-91	METAL GLAZE	0 5% 1/10W	R911	1-216-022-00	METAL GLAZE	75 5% 1/10W
JR412	1-216-295-91	METAL GLAZE	0 5% 1/10W	R913	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W

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The components identified by shading and marked **A** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R914	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W		MISCELLANEOUS	
R915	1-216-113-00	METAL GLAZE	470K 5%	1/10W		*****	
R916	1-216-113-00	METAL GLAZE	470K 5%	1/10W			
R917	1-216-171-00	METAL GLAZE	75 5%	1/8W			
R918	1-216-171-00	METAL GLAZE	75 5%	1/8W			
R919	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W			
R920	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W			
R921	1-216-022-00	METAL GLAZE	75 5%	1/10W			
R922	1-216-073-00	METAL GLAZE	10K 5%	1/10W			
R923	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R924	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R925	1-216-089-91	METAL GLAZE	47K 5%	1/10W			
R926	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R927	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R928	1-216-089-91	METAL GLAZE	47K 5%	1/10W			
R929	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W			
R930	1-216-113-00	METAL GLAZE	470K 5%	1/10W			
R931	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W			
R932	1-216-113-00	METAL GLAZE	470K 5%	1/10W			
R933	1-216-073-00	METAL GLAZE	10K 5%	1/10W			
R934	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W			
R935	1-216-022-00	METAL GLAZE	75 5%	1/10W			
R936	1-216-171-00	METAL GLAZE	75 5%	1/8W			
R937	1-216-113-00	METAL GLAZE	470K 5%	1/10W		ACCESSORIES AND PACKING MATERIALS	
R938	1-216-039-00	METAL GLAZE	390 5%	1/10W		*****	
R939	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R940	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W			
R941	1-216-113-00	METAL GLAZE	470K 5%	1/10W			
R942	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R943	1-216-089-91	METAL GLAZE	47K 5%	1/10W			
R944	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R945	1-216-089-91	METAL GLAZE	47K 5%	1/10W			
R946	1-216-022-00	METAL GLAZE	75 5%	1/10W			
R948	1-216-073-00	METAL GLAZE	10K 5%	1/10W			
R949	1-216-113-00	METAL GLAZE	470K 5%	1/10W			
R950	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W			
R951	1-216-063-91	METAL GLAZE	3.9K 5%	1/10W			
R952	1-216-113-00	METAL GLAZE	470K 5%	1/10W			
R953	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R954	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R955	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R956	1-216-089-91	METAL GLAZE	47K 5%	1/10W			
R957	1-216-039-00	METAL GLAZE	390 5%	1/10W			
R958	1-216-089-91	METAL GLAZE	47K 5%	1/10W			
R959	1-216-674-11	METAL CHIP	9.1K 0.50%	1/10W			
R960	1-216-674-11	METAL CHIP	9.1K 0.50%	1/10W			
R961	1-216-674-11	METAL CHIP	9.1K 0.50%	1/10W		REMOTE COMMANDER	
R967	1-216-171-00	METAL GLAZE	75 5%	1/8W		*****	
R968	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
R969	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
R970	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
R971	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
R972	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
R973	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
R974	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
R975	1-216-113-00	METAL GLAZE	470K 5%	1/10W			
R976	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
R977	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W			
